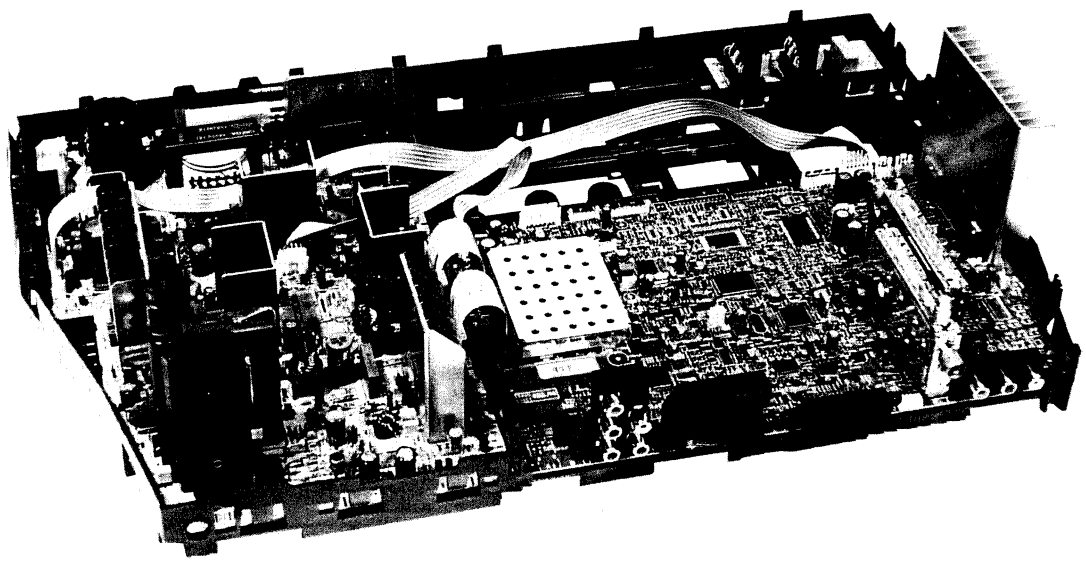
THOM -00061

THOMSON

TV

SERVICE MANUAL
DOCUMENTATION TECHNIQUE
TECHNISCHE DOKUMENTATION
DOCUMENTAZIONE TECNICA
DOCUMENTACION TECNICA

ITC222



WARNING : *Before servicing this chassis please read the safety recommendations.*
ATTENTION : *Avant toute intervention sur ce châssis, lire les recommandations de sécurité.*
ACHTUNG : *Vor jedem Eingriff auf diesem Chassis, die Sicherheitsvorschriften lesen.*
ATTENZIONE : *Prima di intervenire sullo chassis, leggere le norme di sicurezza.*
IMPORTANTE : *Antes de cualquier intervención, leer las recomendaciones de seguridad.*

Code : 357 388 00 - 1203 / 6M - ITC222 - Print. Rosseels Printing: 01 53 01 11 11

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Do not disconnect modules when they are energized!
Repairs on power supply section are to be carried out only with isolating transformer.

Ne pas retirer les modules lorsqu' ils sont sous tension. N'effectuer les travaux de maintenance sur la partie reliée au secteur (Switch Mode) qu'au travers d'un transformateur d'isolement.

Module nicht bei eingeschaltetem Gerät entfernen!
Servicearbeiten am Netzteil nur unter Verwendung eines Regeltrenntrafos durchführen.

Non scollegare le piastre quando sono alimentate!
Per le riparazioni sulla sezione alimentatore, utilizzare un trasformatore isolatore.

No desconectar los módulos cuando están activados. Las reparaciones en la sección de alimentación de energía deben ser ejecutadas solamente con un transformador de separación.

⚠ Indicates critical safety components, and identical components should be used for replacement. Only then can the operational safety be garanteed.

Le remplacement des éléments de sécurité (repérés avec le symbole ⚠) par des composants non homologués selon la Norme CEI 65 entraine la non-conformité de l'appareil. Dans ce cas, la responsabilité du fabricant n'est plus engagée.

Wenn Sicherheitsteile (mit dem Symbol ⚠ gekennzeichnet) nicht durch Original - Ersatzteile ersetzt werden, erlischt die Haftung des Herstellers.

La sostituzione dei componenti di sicurezza (evidenziati con il segno ⚠) con componenti non omologati secondo la norma CEI 65 comporta la non conformitá dell'apparecchio. In tal caso è "esclusa la responsabilità " del costruttore.

La sustitución de elementos de seguridad (marcados con el simbolo ⚠) por componentes no homologados segun la norma CEI 65, provoca la no conformidad del aparato. En ese caso, el fabricante cesa de ser responsable.

MEASUREMENT CONDITIONS - CONDITIONS DE MESURES - MESSBEDINGUNGEN CONDIZIONI DI MISURA - CONDICIONES DE MEDIDAS

RECEIVER :
On UHF,input level : 1 mV, bar test pattern :
- PAL, I standard, 100% white.

Via the scart socket, input level : 1 Vpp, bar test pattern :

Colour, contrast and brightness at mid-position, sound at minimum.
Programme selected : PR 01.

DC voltages measured between the point and earth using a digital voltmeter.

RECEPTEUR :
En UHF, niveau d'entrée 1 mV mire de barres
- SECAM, Norm L, Blanc 100%.

Par la prise Péritélévision, niveau d'entrée 1 Vcc, mire de barres .

Couleur, contraste, lumière à mi-course, son minimum.
Programme affecté PR 01.

Tensions continues relevées par rapport à la masse avec un voltmètre numérique.

EMPFÄNGER :
Bei UHF Eingangspegel 1 mV, Farbbalken :
- PAL, Norm G, Weiss 100%.

Über die Scartbuchse : Eingangspegel 1 Vss, Farbbalken :

Farbe, Kontrast, Helligkeit in der Mitte des Bereichs, Ton auf Minimum.
Zugeordnetes Programm PR 01.

Gleichspannungen mit einem digitalen Voltmeter zur Masse gemessen.

RICEVITORE :
In UHF, livello d'entrata 1 mV, monoscopio barre :
- PAL, norma G. bianco 100%.

Via SCART, livello d'entrata 1 Vpp, monoscopio barre :

Colore, Contrasto, Luminositá media, Suono minimo.
Programma selezionato PR 01.

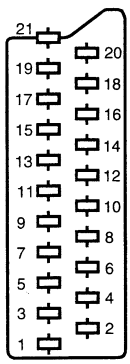
Tensioni continue rilevate rispetto alla massa con un voltmetro digitale.

RECEPTOR :
En UHF, nivel de entrada 1 mV, mira de barras :
- PAL, norma G, blanco 100%.

Por la toma Peritelevision, nivel de entrada 1 Vpp mira de barra.

Color, Contraste, luz a mitad de carrera, Sonido minimo.
Programa afectado PR 01.

Tensiones continuas marcadas en relacion a la masa con un voltimetro digital.



NOTE : (MAIN) *... etc. identifies each* pcb module.

NOTE : (MAIN) *... etc. repères des platines constituant l'appareil.*

HINWEIS : (MAIN) *... usw. Kennzeichnung der Platinen, aus denen das Gerät zusammengesetzt ist.*

NOTA : (MAIN) *... ecc. sigla delle piastre dell' apparecchio.*

NOTA : (MAIN) *... etc. marcas de las placas que constituyen el aparato.*

		ENGLISH	FRANÇAIS	DEUTSCH	ITALIANO	ESPAÑOL
1	⊖	AUDIO "R"	AUDIO "D"	AUDIO "R"	AUDIO "D"	AUDIO "D"
2	⊕	AUDIO "R"	AUDIO "D"	AUDIO "R"	AUDIO "D"	AUDIO "D"
3	⊖	AUDIO "L"	AUDIO "G"	AUDIO "L"	AUDIO "S"	AUDIO "I"
4	⊥	AUDIO	AUDIO	AUDIO	AUDIO	AUDIO
5	⊥	"BLUE"	"BLEU"	"BLAU"	"BLU"	"AZUL"
6	⊕	AUDIO "L" MONO	AUDIO "G" MONO	AUDIO "L" MONO	AUDIO "S" MONO	AUDIO "I" MONO
7	⊕	"BLUE"	"BLEU"	"BLAU"	BLU	AZUL
8	⊕	SLOW SWITCH	COMMUT. LENTE	AV UMSCHALTUNG	"COMMUTAZIONE LENTA"	"CONMUTACION LENTA"
9	⊥	"GREEN"	"VERT"	"GRÜN"	"VERDE"	"VERDE"
10	⊕ ⊖	AV LINK	AV LINK	AV LINK	AV LINK	AV LINK
11	⊕	"GREEN"	"VERT"	"GRÜN"	"VERDE"	"VERDE"
12	NC					
13	⊥	"RED"	"ROUGE"	"ROT"	"ROSSO"	"ROJA"
14	NC					
15	⊕	"RED"	"ROUGE"	"ROT"	"ROSSO"	"ROJA"
16	⊕	FAST SWITCH	COMMUT. RAPIDE	AUSTASTUNG	"COMMUTAZIONE RAPIDA"	"CONMUTACION RAPIDA"
17	⊥	VIDEO	VIDEO	VIDEO	VIDEO	VIDEO
18	⊥	FAST SWITCH	COMMUT. RAPIDE	AUSTASTUNG	"COMMUTAZIONE RAPIDA"	"CONMUTACION RAPIDA"
19	⊖	VIDEO	VIDEO	VIDEO	VIDEO	VIDEO
20	⊕	VIDEO OR "SYNC"	VIDEO SYNCHRO	VIDEO ODER SYNCHRO	VIDEO O SINCRO	VIDEO O SINCRO
21	⊖	PLUG SCREEN BOX	BLINDAGE PRISE	ABSCHIRMUNG DES STECKERS	INVOLUCRO METALLICO DELLA PRESA	BLINDAJE DEL ENCHUFE

⊕ : INPUT - ENTRÉE - EINGANG - ENTRATA - ENTRADA • ⊖ : OUTPUT - SORTIE - AUSGANG - USCITA - SALIDA • ⊥ : EARTH - MASSE - MASSE - MASSA - MASA

INFORMATION - INFORMATIONS - INFORMATIONEN
INFORMAZIONE - INFORMACIONES

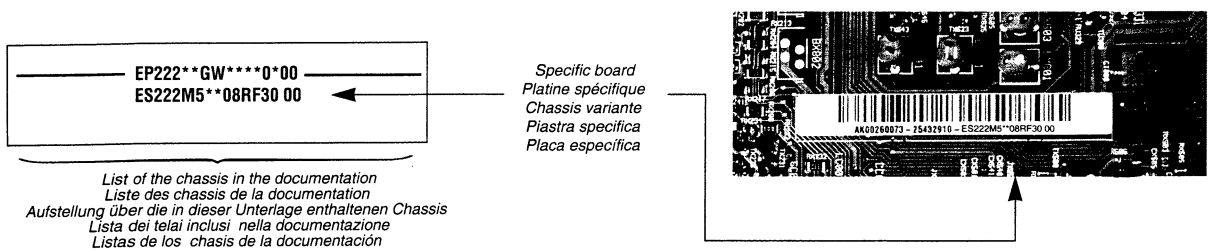
(EN) The **ITC222** chassis is equipped with two main boards :
- Power/Scan Board :PSB - Designation: **EP222 **GW**...** and Small Signal Board: SSB - Designation: **ES222M5**...
Chassis group table
1 - The electronic chassis configuration (modules) and schematic diagram page numbers.
2 - The modules configuration.

(FR) Les chassis **ITC222** sont constitués de deux platines principales:
- Platine Balayage/Alimentation: PSB-Désignation: **EP222 **GW**...** et Platine petits signaux: SSB-Désignation: **ES222M5**..
Le tableau ci-dessous regroupe :
1 - L'environnement électronique de chaque chassis (modules) et le numéro de page où il est décrit.
2 - La désignation des modules.

(DE) Das Chassis **ITC222** besteht im wesentlichen aus zwei Hauptleiterplatten:
- Netzteil/Ablenk-Platine: PSB - Bezeichnung: **EP222 **GW** ...** ; Signal-Platine: SSB - Beszeichnung: **ES222M5**...
Die folgende Tabelle der Chassisgruppen stellt dar:
1 - Die Baugruppen der einzelnen Chassisvarianten und die Seitenzahlen des dazugehörigen Schaltbildes.
2 - Die Modulbestückung der Chassisvarianten.

(IT) Il telaio **ITC222** è formato da due piastre principali :
- Piastra Deflessione/Alimentazione : PSB - Descrizione: **EP222 **GW** ...** ; Piastra Piccoli Segnali : SSB - Descrizione: **ES222M5** ...
La tabella in basso indica:
1 - La configurazione elettronica del telaio (moduli) ei numeri di pagina del relativo schema.
2 - La configurazione dei moduli.

(ES) El chasis **ITC222** está compuesto por dos placas principales :
- Placa Alimentación / Barridos (PSB), denominada : **EP222 **GW** ...** ; y la placa de pequeñas señales (SSB), denominada : **ES222M5** ...
- En la tabla siguiente se pueden ver:
1 – La configuración electrónica de cada chasis (módulos) y el número de página donde está el esquema.
2 – La denominación de los módulos.



DESCRIPTION	BLK/ WIR. DIAGR.	CONNECT- SAFETY	ADJUST. MENTS	POWER / SCAN BOARD			SMALL SIGNAL BOARD							CRT	DYNAMIC FOCUS	FCB KDB
				POWER (PP)	SCAN (DP)	PSB PCB	POWER (SPP)	REMOTE (RP)	HF TUNER	FRONT END (FE)	VIDEO (VP)	AUDIO (AP)	SSB PCB			
EP222**GW****0*00	5 - 8	9	10-24	25-26	27-28	29-34										
ES222 M5**08RF30 00	5 - 8	9	10-24				35-36	37-40	41-42	43-48	49-52	56-62	63-69	53-55	7072	75-77
EP222**IW****0* 00	5 - 8	9	10-24	25-26	27-28	29-34										
ES222 M5**08RF30 00	5 - 8	9	10-24				35-36	37-40	41-42	43-48	49-52	56-62	63-69	53-55	7072	75-77

VHF / UHF Tuner Part (for Information only) : p. 73 - 74
Integrated Circuits and Transistors outline : p. 78

INFORMATION - INFORMATIONS - INFORMATIONEN - INFORMAZIONE - INFORMACIONES

(EN) **OUT OF PRODUCTION MODE :**
To set TV into "**out of production mode**" (letter **P** at the screen):
- Press the **VOL -** button on the TV keyboard until the letter "P" disappears.

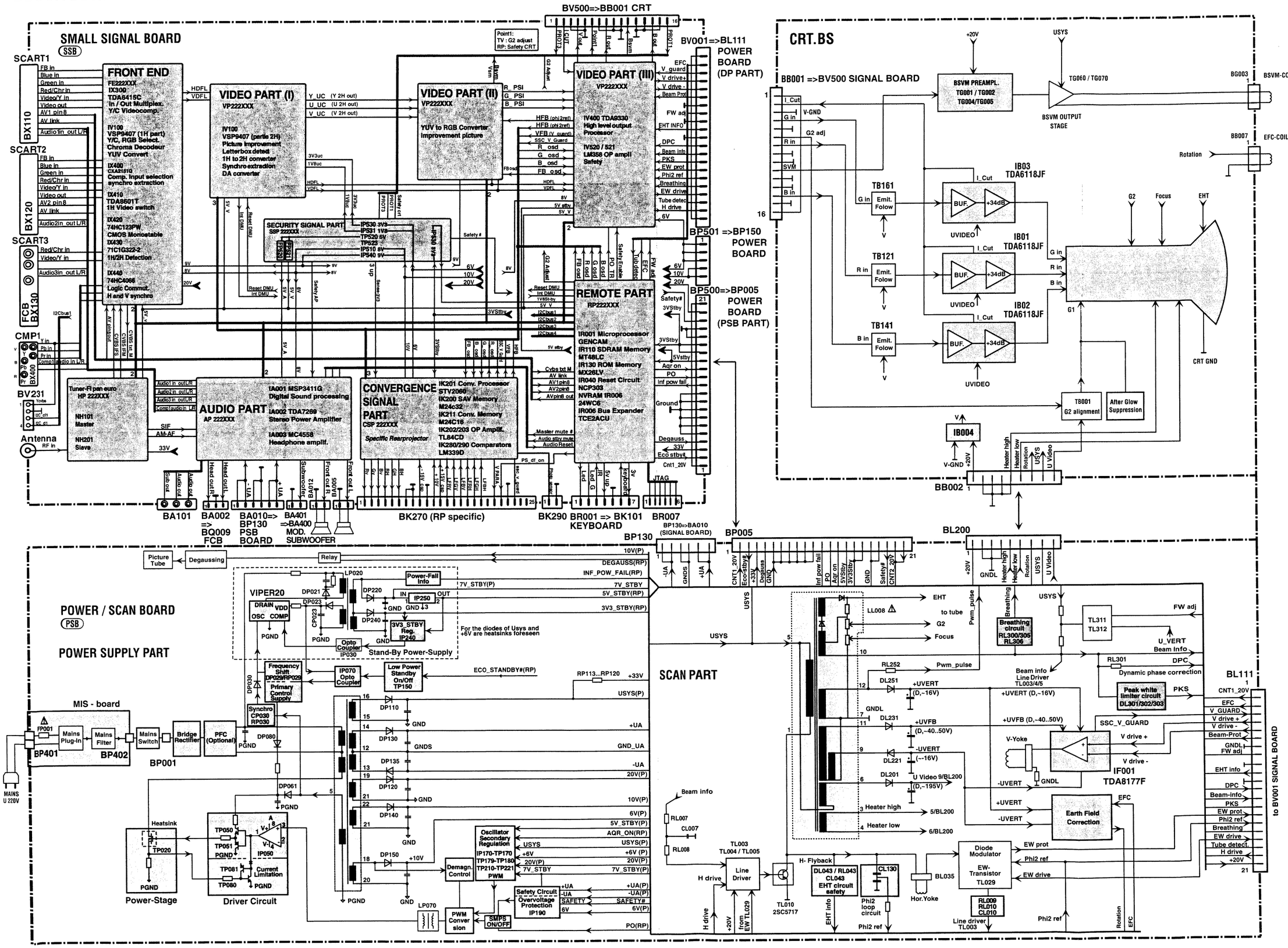
(FR) **SORTIE DE MODE PRODUCTION**
Pour sortir le téléviseur du mode production (lettre P à l'écran):
- Appuyer sur la touche **VOL-** du clavier du téléviseur jusqu'a la disparition de la lettre "**P**" .

(DE) **VERLASSEN DES PRODUKTIONSMODE:**
"**Lautstärke -**" am Nahbedienfeld drücken bis der Cursor am linken Anschlag ist und dann noch weitere ca. 10 s halten bis das eingeblendete "**P**" verschwindet.

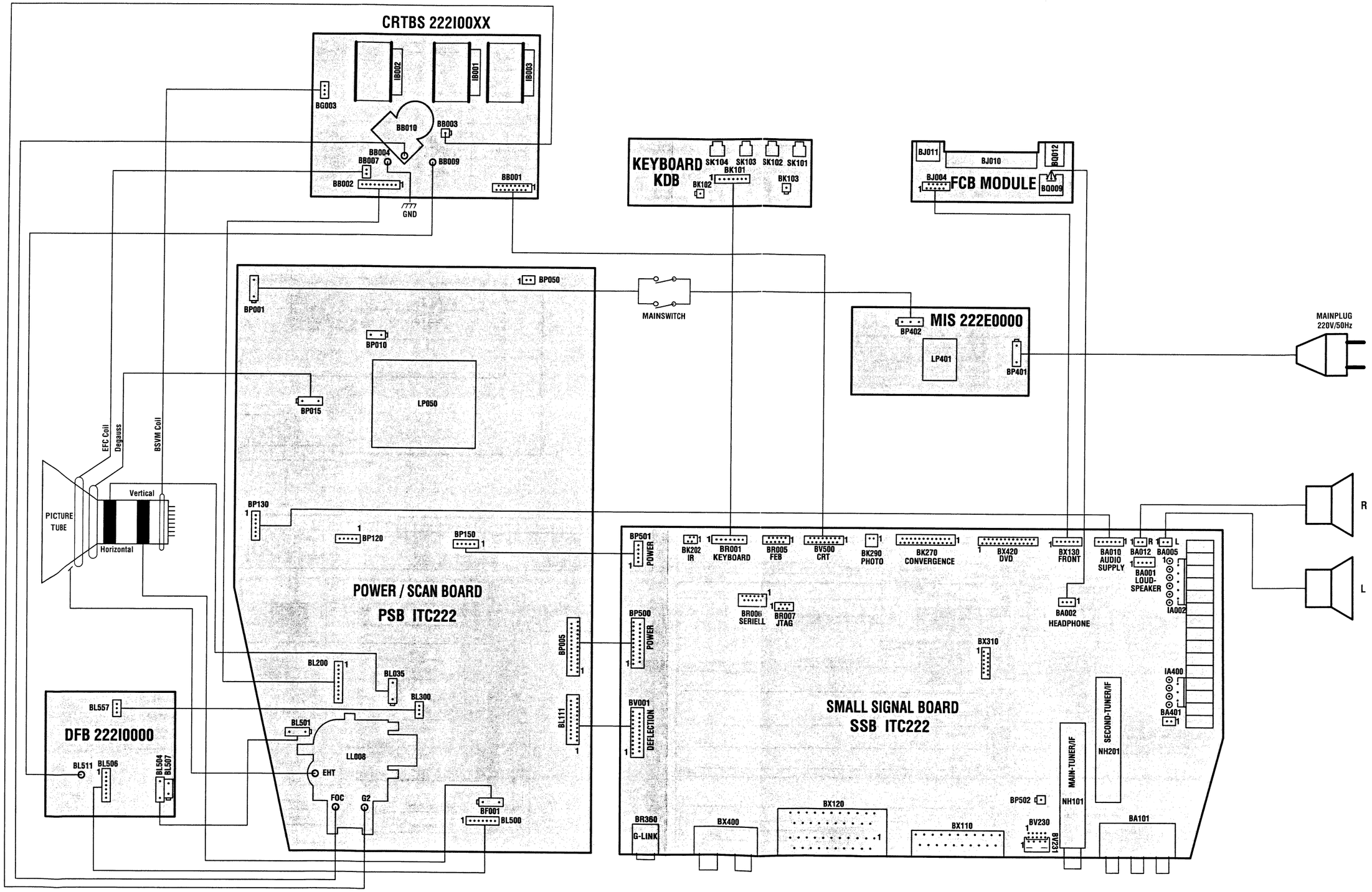
(IT) **USCITA DA PRODUCTION MODE:**
Per uscire dalla condizione " **Production mode**" (lettera P presente suulo schermo)
- Premere il tasto-volume sulla tastiera comandi del TV fino a che la lettera "**P**" scompare.

(ES) **SALIDA DEL MODO PRODUCCION.**
Para salir del '**modo producción**', (aparece una letra **P** en la pantalla):
- Mantener pulsada la tecla "**Volumen -**" del teclado hasta que la letra "**P**" desaparezca.

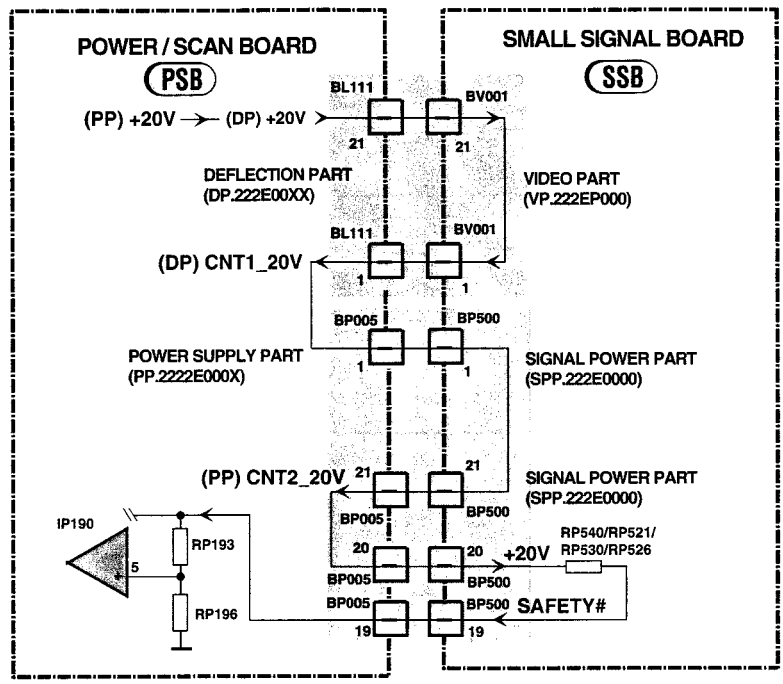
BLOCK DIAGRAM - SCHEMA SYNOPTIQUE - BLOCKSCHALTBILD - SCHEMA A BLOCCHI - ESQUEMA DE BLOQUES



WIRING DIAGRAM - SCHEMA D'INTERCONNEXIONS - VERDRAHTUNGSPLAN - DIAGRAMMA DELLE INTERCONNESSIONI - ESQUEMA DE INTERCONEXIONES



CONNECTING SAFETY POWER BOARD / SIGNAL BOARD
SECURITE DE CONNEXION PLATINES PUISSANCE / PETITS SIGNAUX
VERBINDER ZWISCHEN NETZTEIL/ABLENK-PLATINE UND SIGNAL-PLATINE
COLLEGAMENTI DI SICUREZZA DELLA PIASTRA POTENZA/PIASTRA SEGNALI
CONEXIONES DE LA SEGURIDAD ENTRE LA PLACA ALIMENTACIÓN / SEÑAL



EN

The **20V** voltage which is fed in a loop **CNT1_20V => CNT2_20V** through the connectors going to the signal processing boarder in order to insure a good connection between both boards and to protect the **PSB** and the **SSB** boards :
CNT1_20V => protecting the cable connections BL111 / BV001
CNT2_20V => protecting the cable connections BP005 / BP500
If one of these voltage does not exist (20V comprise) the IP170 output will be 0 and the main SMPS will be bloked via TP210/TP161.

FR

Le cheminement de la tension **20V** par la platine petits signaux est effectué sous forme de boucle **CNT1_20V => CNT2_20V**
afin de protéger les platines **PSB** et **SSB** en cas de mauvaise connexion des nappes BR003 et BV003.
CNT1_20V => sécurité de la nappe BL111 / BV001
CNT2_20V => sécurité de la nappe BP005 / BP500.
Si l'une de ces tensions (20V inclu) n'est pas présente la sortie de IP170 passe à 0 entraînant le blocage de l'alimentation principale via TP210/TP161.

DE

Um die **PSB**- und die **SSB**-Platinen zu schützen und um eine sichere Betriebsspannungsversorgung dieser Platinen zu gewährleisten, ist die **+20V-Versorgungsschiene** (**CNT1_20V => CNT2_20V**) über die Verbinder BV001 und BR003 durchgeschleift.
CNT1_20V => Schutz über Flachbandkabel BL111 / BV001
CNT2_20V => Schutz über Flachbandkabel BP005 / BP500
Sollte eine dieser (Teil-) Spannungen (oder die +20V) fehlen, ist der Ausgang des IP170 Pin 7 auf L-Pegel und das Hauptnetzteil wird über TP210/TP161 abgeschaltet.

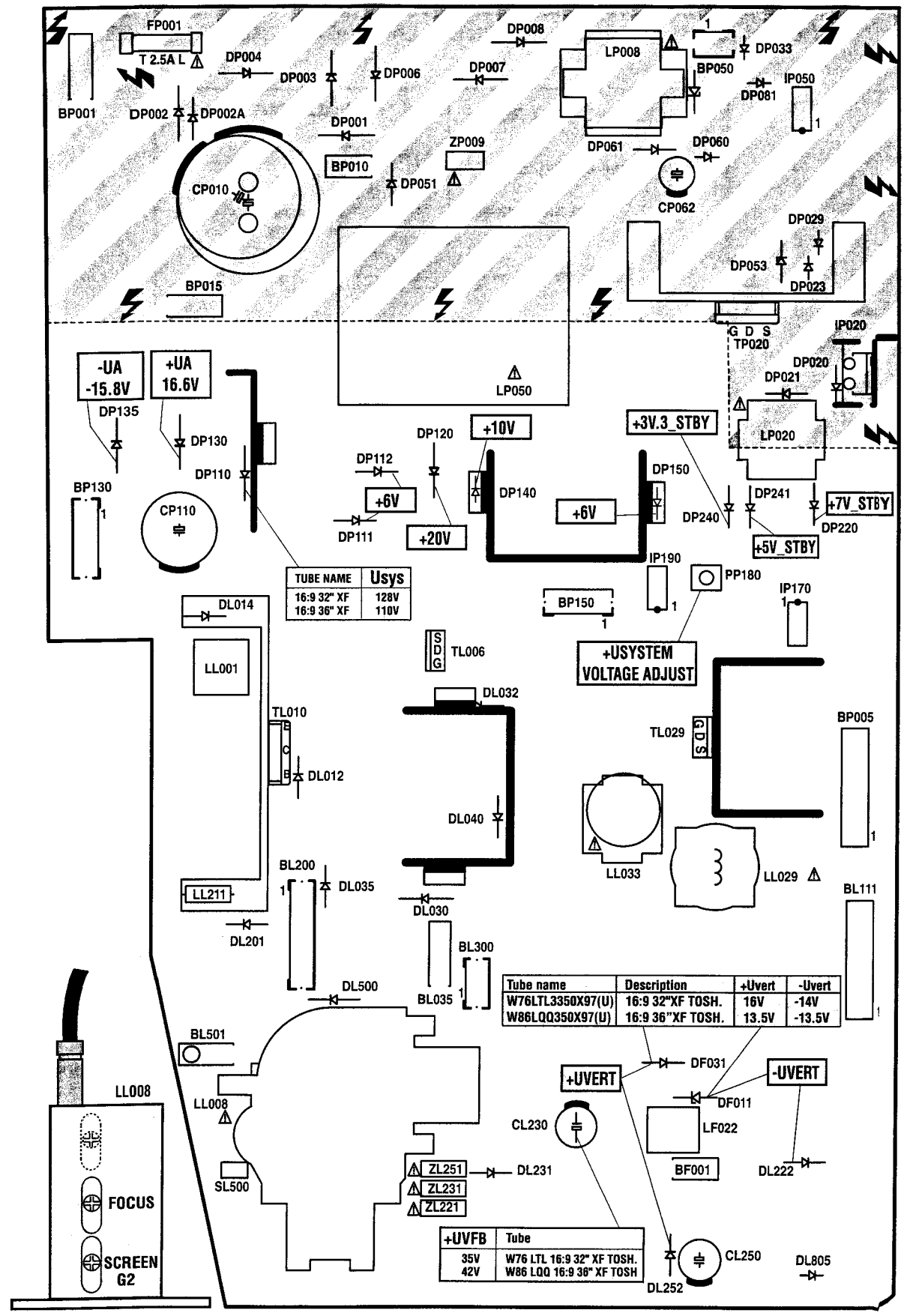
IT

L'alimentazione di **20V** alla piastra elaborazione segnali viene fornita dai connettori **CNT1_20V => CNT2_20V** in modo da assicurare une protezione delle piastre **PSB** e **SSB** nel caso che si manifesta se un cattivo collegamento.
CNT1_20V => protezione BL111 / BV001
CNT2_20V => protezione BP005 / BP500
Se una di queste tensioni non è presente (20V compresi) l'uscita di IP170 sarà messa a zero e l'alimentatore SMSP verrà bloccato via TP210/TP161.

ES

El recorrido de la tensión de **20V** por la placa SSB se efectúa en forma de bucle **CNT1_20V => CNT2_20V** con el fin de proteger las placas **PSB** y **SSB** en el caso de un fallo de los conectores
CNT1_20V => seguridad del mazo BL111 / BV001
CNT2_20V => seguridad del mazo BP005 / BP500
Si falta una de estas tensiones (20V incluida), la salida de IP170 será 0 y la fuente principal (SMPS) se bloqueará por TP210/TP161.

LOCATION OF CONTROLS - EMPLACEMENT DES REGLAGES - SERVICE LAGEPLAN - POSIZIONE REGULATORI DI SERVIZIO - SITUACIÓN DE LOS AJUSTES



Part of board connected to mains supply.
Partie du châssis reliée au secteur.
Primärseite des Netzteils.
Parte dello châssis collegata alla rete.
Parte del chasis conectada a la red

Use isolating mains transformer -
Utiliser un transformateur isolateur du secteur -
Trenntrafo verwenden -
Utilizar un transformador aislador de red -
Utilizzare un transformatore per isolarvi dalla rete

ADJUSTMENTS - REGLAGES - EINSTELLUNGEN - REGOLAZIONE - AJUSTES

U Sys	PP180	Standard TV - Settings : ☼+◑+◑=50% TV to AV1 : Black test pattern	(V=) DP 110

Tube name	Description	Usys jumper	RP900 Usys divid.	Usys
W76LTL350X97(U)	16/9 32"XF	JP911	26K1	128V
W86LQQ350X97(U)	16/9 36"XFT	JP911	7K15	110V

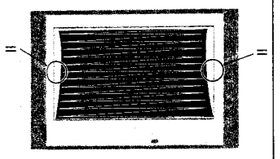
RASTER SHIFT CORRECTION - CENTRAGE DE BALAYAGE HORIZONTAL - BILDLAGE-EINSTELLUNG
CENTRATURA DI SCANSIONE ORIZZONTALE - RASTER SHIFT CORRECTION - CORRECCIÓN DEL CENTRADO HORIZONTAL

SERVICE MODE

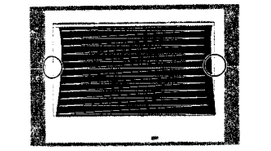
PL551
DYNAMIC FOCUS BOARD

DFB

SCREEN



correct



no correct

- Choose "Geometry" menu in the Service Mode and change H-Amplitude until under scan is reached.
- Choose "Video" menu and active "G2 alignment"
- If the raster is not visible increase G2 voltage (SCREEN potentiometer) slightly until raster becomes visible.
- Center the raster between tube border (equal distance on both sides) with PL551 on Dynamic Focus Board .
- Align G2 and Geometry.

- Aller dans le Mode service/menu "Géométrie" et agir sur H-Amp pour obtenir un sous-balayage.
- Aller ensuite dans "Vidéo" et activer "G2 alignment".
  Les retours lignes doivent être visibles. Sinon augmenter légèrement la tension G2 voltage (potentiomètre SCREEN) jusqu'à ce qu'ils soient visibles.
- Régler PL551(platine DFB) pour centrer le balayage sur le tube (sans faire de repli sur la trace).
- Régler G2 et la Géométrie .

- Wählen Sie im Service-Mode das Menü „GEOMETRY" und reduzieren Sie die Horizontal-Amplitude bis das Bild horizontal unterschrieben wird (schwarze Ränder links und rechts).
- Wählen Sie im Service-Mode das Menü „VIDEO" und aktivieren Sie den G2-Abgleich.
- Sollte das Gitter nicht sichtbar sein, erhöhen Sie die G2-Spannung (Einsteller SCREEN) langsam bis das Gitter sichtbar wird.
- Stellen Sie mit dem Poti PL551 auf dem Dynamic Focus Board die Horizontal-Bildlage so ein, dass sich das Gitter in der Mitte des Bildschirm befindet und die schwarzen Bildränder an den Seiten gleich breit sind.
- Gleichen Sie die G2-Spannung und die Bildgeometrie neu ab.

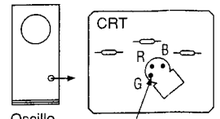
- Selezionare il menu di "Geometria"in service mode e regolare la funzione H-AMPfino ad ottenere una sotto scansione.
- Selezionare il menu "Video" e agire sulla funzione "G2 Alignement".
- Se il raster non è visibile incrementare la tensione G2 (pot.Screen) lentamente fino a rendere visibile il raster.
- Centrare il raster tra i bordi del tubo (uguale sistanza tra i bordi) con PL551 posizionato sulla piastra Fuoco Dinamico.
- Regolare G2 e Geometria.

- Seleccionar "Geometria" en el menú del Modo Servicio y reducir H-Amplitude hasta ver franjas negras
- Seleccionar el menú "Video" y seleccionar "G2 alignment"
- Si el barrido no es visible, aumentar la tensión de la G2 (potenciómetro SCREEN) lentamente hasta que sea visible.
- Centrar el barrido (igual distancia en ambos laterales) con PL551 en la placa Dynamic Focus.
- Ajustar la G2 y la Geometría.

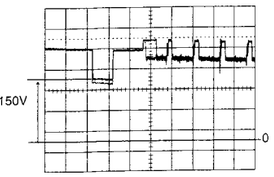
U G2 METHOD 1 SERVICE MODE

U G2 SERVICE MODE	SERVICE MODE G2 potentiometer : SCREEN	-Select and enable the "G2 Alignment" item in VIDEO menu of the Service Mode : the displayed will change to a full black OSD screen. The following adjustment is best carried in semi-darkness: - Adjust the **SCREEN** potentiometer (LL008) so that the retrace lines are just visible. - Now carefully adjust the **SCREEN** potentiometer until the retrace lines just become invisible. - Press any RCU key to leave the G2 alignment. Note: If the G2 value is set too low, the chassis will display error code 36 (tube does not get warm in time). - Sélectionner et valider le réglage "G2 Alignment" dans le menu Vidéo de Service Mode: l'écran devient totalement noir. En obscurité: - Régler le potentiomètre "**SCREEN**" (LL008) pour apercevoir le retour des lignes. - Régler ensuite le potentiomètre "**SCREEN**" pour rendre juste invisible les lignes de retour. - Appuyer sur une des touches de la télécommande utilisateur pour sortir du mode G2 Alignment. Note : En cas de réglage G2 trop faible le chassis passe en code panne 36 (absence de l'information tube chaud. - Wählen Sie im Service-Mode im Menü VIDEO die Funktion "G2 Alignment" an: der Bildschirm wird schwarz. Die folgenden Einstellungen sollten in einem abgedunkelten Raum vorgenommen werden. - Stellen Sie den Einsteller **SCREEN** (am DST LL008) so ein, dass Rücklaufstreifen sichtbar werden. - Stellen Sie den Einsteller SCREEN so ein, dass die Rücklaufstreifen gerade unsichtbar werden. - Drücken Sie irgendeine Taste auf der Fernbedienung um den G2-Abgleich zu verlassen. Achtung: Wenn die Schirmgitter- (G2-) Einstellung zu niedrig ist, kann der Fehlercode 36 (Bildrohr nicht rechtzeitig aufgeheizt) angezeigt werden. Selezionare e abilitare"G2 Alignment" interno al menu VIDEO del Service Mode: Verrà visualizzato uno schermo nero. In condizione con ambiente scuro. Regolare il potenziometro **SCREEN** (LL08) per rendere visibili le ritracce sullo schermo Regolare il potenziometro **SCREEN** per eliminare le ritracce sullo schermo Premere un tasto del tecomando per abbandonare G2 alignment. NOTA: se la regolazione della tensione G2 è tropppo bassa il telaio visualizzerà il codice 36 (il tubo non raggiunge la temperatura nel tempo richiesto) - Seleccionar y validar la línea del "ajuste G2" en el menú VIDEO del Modo Servicio : La pantalla se pondrá oscura y el OSD pasará a color negro. Cuando esté oscura: - Ajustar el potenciómetro **SCREEN** (LL008) hasta hacer visibles las líneas de retrazado. - Ajustar el potenciómetro **SCREEN** justo, hasta hacer invisibles las líneas de retrazado. - Pulsar cualquier tecla del telemando para salir del ajuste de G2. Nota: Si el valor del ajuste de G2 es muy bajo, el chasis puede indicar el código de error 36 (TRC no se calienta en el tiempo establecido)

U G2 METHOD 2 MEASURMENT METHOD

U G2	G2 potentiometer : SCREEN Focus-Block	Standard TV - Settings : ☼+◑+◑ = 50% TV to AV1 : Black test pattern	 CRT-highest cathode

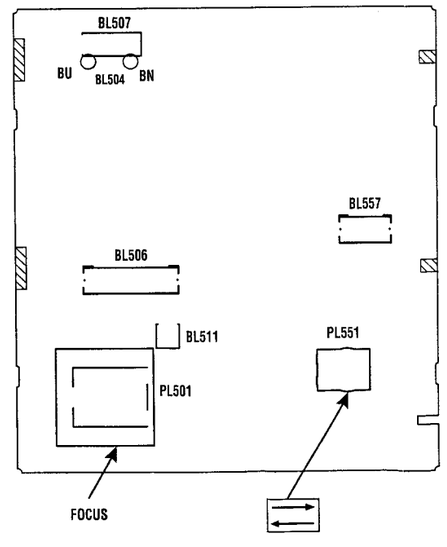
CRT-highest cathode
Adjust VG2 CRT: V= 150V



FOCUS	FOCUS	Standard TV - Settings : ☼+◑+◑=50%	TV to AV1 Test pattern Sharp picture

Focus adjustment for extra flat tube (XF)		1 - Turn PL501 fully clockwise. 2 - Using FOCUS adjust the focus of the horizontal line in the middle of the screen have the best sharpness. 3 - Turn PL501 that the vertical lines at the edge of the screen have the best sharpness. 4 - Repeat if necessary these adjustments to optimise the sharpness.
Réglage focus pour les tubes extra plats (XF)	FOCUS DFB PL501	1 - Tourner PL501 à fond dans le sens des aiguilles d'une montre. 2 - Régler le potentiomètre "FOCUS" pour obtenir la ligne horizontale en milieu d'écran la plus fine possible. 3 - Régler PL501 pour obtenir la ligne verticale au bord la plus fine possible. 4 - Répéter si nécessaire ces réglages pour optimiser la finesse.
Fokus-einstellung bei extra flat-bildröhren (XF)		1- Stellen Sie PL501im Uhrzeigersinn auf Anschlag. 2- Gleichen Sie mit dem FOUS-Einsteller die mittlere horizontale Linie auf maximale Schärfe ab. 3- Gleichen Sie mit PL501 die Schärfe der vertikalen Linien in den Ecken des Bildschirms auf Maximum ab. 4- Falls notwendig wiederholen Sie den Abgleich, bis die optimale Bildschärfe erreicht wurde.
Regolazione fuoco per tubi extra flat (XF)		1 Ruotare PL501 completamente in senso orario. 2 Tramite la regolazione FUOCO regolare le linee orrinzontali al centro dello schermo fino ad avere la migliore definizione. 3 Regolare PL501 fino a che le linee verticali ai bordi dello schermo siano perfettamente definite. 4 Ripetere se necessario più volte queste regolazioni per ottimizzare la definizione.
Ajuste del foco para t.r.c. extraplano (XF)		1 - Girar PL501 totalmente hacia la izquierda 2 - Utilizando el ajuste FOCUS, enfocar las líneas horizontales del centro de la pantalla 3 - Girar PL501 hasta que las líneas verticales de las bordes de la pantalla tengan la mejor definición. 4 - Repetir estos ajustes hasta conseguir optimizar la definición.

DYNAMIC FOCUS MODULE - MODULE FOCUS DYNAMIQUE - DYNAMIKFOKUS BAUSTEIN - MODULO FUOCO DINAMICO - MÓDULO FOCO DINÁMICO



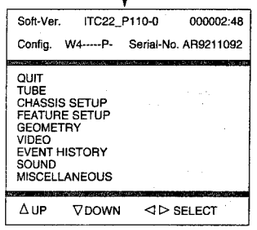
I - ENTER/EXIT SERVICE MODE - ENTREE/SORTIE DU MODE SERVICE - EIN-AUSTIEG SERVICE MODE - ACCESSO/USCITA ALLA/DALLA FUNZIONE - ENTRADA/SALIDA MODO SERVICIO

SERVICE MODE (EN)

1 ACCESSING SERVICE MODE

TV Control Panel Access

- Switch the TV into "**Standby**" mode by pressing the Standby button on the RCU.
  Wait till the TV goes into the standby.
- Press the **VOL-** button and then the **PR-** button on the TV keyboard.
  Hold them down for more than 8 seconds.
- After the normal switch on time, when the 8 seconds have elapsed, the main service menu appears on the screen.



Note :
In service mode :
- Clear any wake-up/sleep/memo/EPG timers
- First installation Mode is overridden.
- Zoom and format are set to standard scanning
- Front Panel lock mode has to be cancelled.
- Pin 8 of the scart plug has to be ignored.
- AV- Link WSS detection and letterbox detection has to be disabled (autoformat).
- EPG and TELETEXT have to be disabled.
- All passwords have to disabled.
- On PTV set the Burn In Protection has to be disabled.

2 TEMPORARY EXIT FROM SERVICE MODE

- Press Exit on the Remote control.
- Everyday use menu can be accessed via Menu button.

- Field Service Menu can be re-entrered via Blue button.

3 EXITING FROM SERVICE MODE

Remote Control

- Go to the point QUIT in the Field service Mode main menu.

- Press ">" button

- TV mode.

on/off key or Stand-by

- Stand-by function or "off" with on/off key.

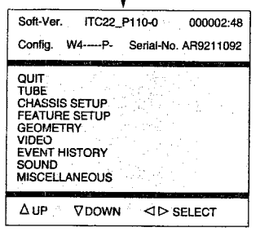
Values or adjustments are no stored before exiting from service mode will not be written into the NVM

MODE SERVICE (FR)

1 ACCES AU MODE SERVICE

Accès avec le clavier du téléviseur

- Mettre le téléviseur en position "**veille**" avec la télécommande utilisateur.
- Appuyer sur la touche **VOL-** puis sur la touche **PR-** du clavier du téléviseur.
  Maintenir enfoncées ces touches ensemble plus de 8 secondes.
- Après le temps normal de mise en fonctionnement et lorsque les 8 secondes sont écoulées, le menu principal du Mode Service apparaît.



Note :
En mode service:
- La programmation des heures "reveil/matin", mémoire et EPG est annulée.
- Le premier mode d'installation est ignoré.
- Zoom et format sont initialisés au balayage standard.
- Le verrouillage du bloc de commandes du TV est effacé (réinitialisé).
- Pin 8 de la prise SCART ignorée.
- AV- Link , la détection WSS et la détection letterbox ne sont pas validées.
- Les fonctions EPG et Télétexte ne sont pas validées.
- Les mots de passe ne sont pas validés.
- Sur les modèles Rétroprojecteurs la fonction de protection aux brûlures de tube est dévalidée.

2 SORTIE TEMPORAIRE DU MODE SERVICE

- Utiliser la touche Exit de la télécommande.
- Le menu utilisateur peut être accessible via la touche "Menu.

- Pour entrer à nouveau dans le mode service utliliser la touche bleue.

3 SORTIE DEFINITIVE DU MODE SERVICE

télécommande

- Aller au point "QUIT" dans le menu principal du mode service.

- Appuyer sur ">"

- Mode TV.

Inter M/A ou Stand-by

- Foncion Stand-by ou "off" par M/A

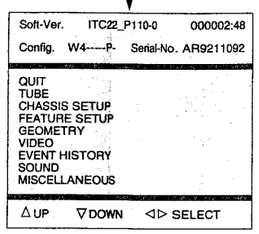
Les valeurs ou réglages non mémorisés avant la sortie ne seront pas écrites en NVM.

SERVICE - MODE (DE)

1 EINSTIEG IN DEN SERVICE MODE

Zugriff über die Tastatur des Fernsehgeräts

- Schalten Sie das Gerät mit der Fernbedienung in **Standby**.
- Drücken Sie die **VOL-** Taste und dann die **PR-**Taste am Nahbedienteil
  des Gerätes. Halten Sie beide Tasten für länger als 8 Sekunden gedrückt.
- Nach der normalen Einschaltzeit erscheint auf dem Bildschirm das Menü des Service-Modes.



Anmerkung:
Im SERVICE MODE :
- werden alle Weck-, Schlummer-, Memo- und EPG-Timer gelöscht.
- Der Erstinstallations-Mode wird vom Service-Mode überlagert.
- Zoom und Bildformat werden auf Standardwerte gesetzt
- Die Bedienteilsperre wird aufgehoben
- wird die SCART - Schaltspannung nicht ausgewertet.
- AV-Link, WSS- und Letterbox-Detektion (Autoformat) sind abgeschaltet.
- sind Videotext und EPG abgeschaltet.
- werden alle Passworte gelöscht.
- Bei Rückprojektionsgeräten wird der Einbrennschutz außer Betrieb gesetzt

2 VORÜBERGEHENDES VERLASSEN DES SERVICE MODE

- Auf der Fernbedienung EXIT drücken
- Mit der Taste MENÜ gelangen Sie zum Menü ÜBERSICHT

- Mit der blauen Taste gelangen Sie zurück in den Service-Mode.

3 ENDGÜLTIGES VERLASSEN DES SERVICE MODES

Fernbedienung

- Gehen Sie im Hauptmenü des Service-Modes mit dem Cursor auf die Zeile QUIT.

-Taste ">"drücken

- TV Modus

Netzschalter oder Standby

- Mit Standby-Funktion oder Netzschalter ausschalten

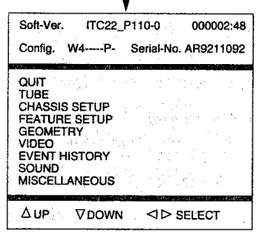
Werte und Einstellungen, die nicht vor dem Verlassen des Service-Modes gespeichert wurden, werden nicht in den Permanentspeicher (EEPROM) übernommen.

SERVICE - MODE (IT)

1 ACCESSO AL SERVICE MODE

tramite i comandi del televisore

- Posizionare il TV nel modo "**Standby**" usando il tasto standby del telecomando.Attendere che il TV si posizioni in standby.
- Premere prima il tasto **VOL-** e poi il tasto **PR-** sulla tastiera del TV Mantenere premuto idue tasti per più di 8 secondi.
- Dopo circa 8 secondi il TV si accenderà mostrando sullo schermo il menu service.



Nota :
Nel service mode:
- Cancella qualsiasi wake-up/sleep/EPG timers.
- Il primo modo di istallazione è ignorato
- Zoom e Format sono inizializzati alla scansione standard
- Il blocco pannello frontale è stato annullato
- Il piedino 8 della scart è ignorato.
- La rilevazione AV-Link WSS e rilevazione letterbox (formato) è statà disabilitata.
- EPG e TELEVIDEO sono stati disabilitati.
- Tutte le password sono state disabilitate
- Sui modelli PTV la protezione Burnt è stata disabilitata

2 USCITA TEMPORANEA DAL SERVICE MODE

- Premere Exit sul telecomando.
- Al menu di uso quotidiano si accede attraverso il pulsante Menu

- É possibile rientrate nel Menu Service tramite il pulsante Blue.

3 USCIRE DAL SERVICE MODE

telecomando

- Andare al punto QUIT nel Modo service del Menu principale

- Premere ">"

- Modo TV.

Tasto on/off

- Funzione Stand-by o "off" con il tasto on/off

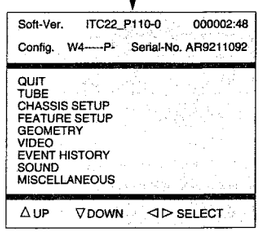
Valori e regolazioni non memorizzati prima di uscire dal Modo service e non vengono scritti nell'NVM

MODO SERVICIO (ES)

1 ACCESO AL MODO SERVICIO

Acceso panel control TV

- Con el TV encendido, apagarlo con la tecla "**Standby**" del telemando. Asegurarse de que el aparato ha pasado a "Standby".
- Pulsar primero, la tecla VOL- y después PR- del teclado del TV. Mantenerlas pulsadas al mismo tiempo durante unos 8 segundos
- Después del arranque normal, cuando hayan pasado los 8 segundos, aparecerá el menú principal del Modo Servicio



Nota :
En modo servicio:
- Borrar despertador/función sleep/memorias/temporizadores EPG
- El modo primera instalación es ignorado.
- El zoom y el formato son inicializados a barrido estándar
- El bloqueo del teclado queda cancelado.
- La patilla 8 del SCART es ignorada
- La detecci6n de A V-Link, WSS y "modo buzón" (autoformato) se desactiva.
- EPG y TELETEXTO son desactivados
- Todas las contraseñas son desactivadas
- En los retroproyectores la opción "antimarcado" se desactiva

2 SALIDA TEMPORAL DEL MODO SERVICIO

- Pulse Salir en el mando a distancia
- Con el botón Menu puede acceder al menú de uso cotidian

- Puede entrar al Menú Servicio con el botón azul.

3 SALIDA DEL MODO SERVICIO

telecomando

- Vaya al punto QUIT del menú principal de modo Servicio

- Pulse el botón ">"

- Modo TV.

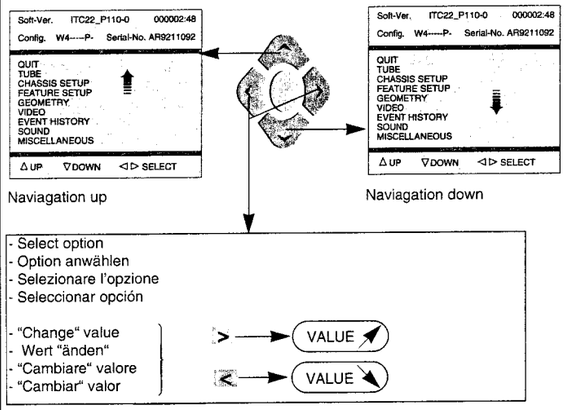
Tecla on/off de

-Stand-by o desconexión (off) con tecla on/off.

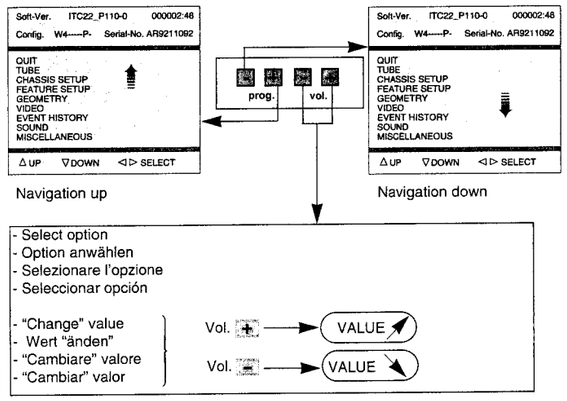
Los valores o ajustes no se guardan antes de salir del modo servicio y no se escriben en el NVM

II - NAVIGATION INSIDE THE SERVICE MODE - DEPLACEMENT DANS LE MODE SERVICE SUCHE IN SERVICE MODE - OPZIONI NEL SERVICE MODE - BUSQUEDA EN MODO SERVICIO

1 REMOTE CONTROL - TELECOMMANDE - FERNBEDIENUNG TELECOMANDO - MANDO A DISTANCIA



2 TV CONTROL PANEL - CLAVIER TV - TASTATUR DES FERNSEHGERÄTS - COMANDI DEL TELEVISORE -



3 MENUS WITH MULTIPLE PAGES - MENUS A PLUSIEURS PAGES MENÜS MIT MEHREREN SEITEN

Changing page - Changement de page
Seitenwechsel - Cambiare Pagina - Cambio de página

- When the highlight is on the first line of a menu a press on the « Δ » key display the previous page.
- When the highlight is on the bottom line of a menu a press on the « ▽ » key display the next page.

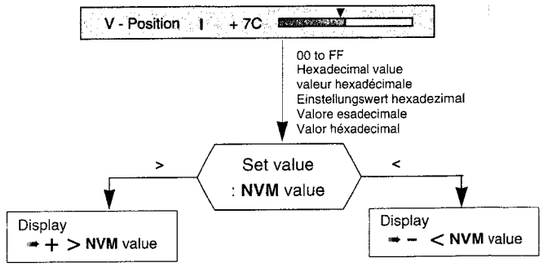
- Quand la 1ère ligne du menu est en surbrillance, un appui sur la touche « Δ » affiche la page précédente.
- Quand la dernière ligne du menu est en surbrillance, un appui sur la touche « ▽ » affiche la page suivante.

- Ist die oberste Menüzeile markiert, drücken Sie die « Δ »-Taste um die vorhergehende Seite anzuzeigen.
- Ist die unterste Menüzeile markiert, drücken Sie die « ▽ »-Taste um die nächste Seite anzuzeigen.

- Quando la prima linea del menu è illuminata premere il tasto « Δ » per visualizzare la pagina precedente.
- Quando l'ultima riga del menu è illuminata premere il tasto« ▽ »per visualizzare la pagina sucessiva.

- Cuando está seleccionada la primera línea de un menú, al pulsar « Δ » se pasa a la página anterior.
- Cuando está seleccionada la última línea de un menú, al pulsar « ▽ » se pasa a la página siguiente.

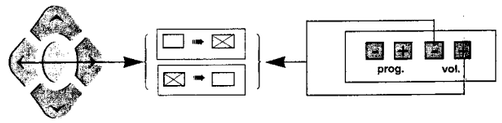
4 DISPLAYING THE VALUE OF THE SETTING - AFFICHAGE DES VALEURS - ANZEIGE DES EINSTELLUNGSWERTES VISUALIZZAZIONE DEL VALORE DELLA REGOLAZIONE - VISUALIZACION DEL VALOR DE AJUSTE



5 TOGGLE FUNCTIONS - VALIDATION DES FONCTIONS EIN-UND AUSSCHALTFUNKTIONEN - FUNZIONI DI COMMUTAZIONE - FUNCION CONMUTACION

To enable a function check (tick) ☒ the box.
Pour valider une fonction cocher ☒ la case correspondante
Zum Implementieren einer Funktion das Kontrollkästchen ☒ aktivieren (ankreuzen)
Per implementare una funzione di verifica, (vistare) ☒ la casella
Para poner en fucionamiento una función verifique (señale) ☒ la casilla

☒ : Implemented function ☐ : No implemented function



6 STORING VALUES IN MEMORY - MEMORISATION DES VALEURS - SPEICHERN DER WERTE - MEMORIZZAZIONE I VALORI - VALORES ALMACENADOS EN LA MEMORIA

After setting, the values are stored in NVM.
Après réglages les valeurs sont mémorisées en NVM.
Nach dem Einstellen werden die Werte im NVM gespeichert.
Dopo la regolazione i valori vengono memorizzati in NVM.
Después del ajuste, los valores son almacenados en NVM

The box ☐ becomes ☒
During alignment, values are temporarily stored in RAM.
En cours d'alignement les valeurs sont mémorisées temporairement en RAM
Während des Abgleichs werden die Werte vorübergehend im RAM gespeichert
Durante l'allineamento i valori vengono memorizzati provvisoriamente sulla RAM
Durante el alineamento, los valores son almacenados temporalmente en RAM

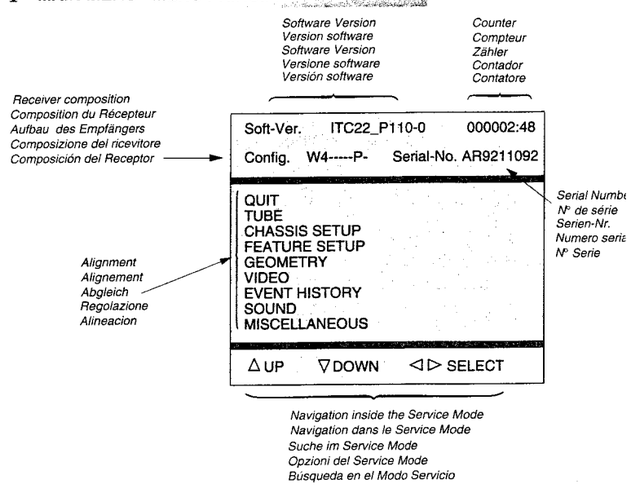
Store ➡ Copies RAM values into NVM
Copie la valeur RAM en NVM
Kopieren des Wertes von RAM nach NVM
Copiare i valori RAM in NVM
Copiar valores RAM en NVM

Restore ➡ Copies all values from NVM into RAM.
Copie toutes les valeurs des données NVM en RAM
Kopiert alle NVM-Datenwerte in des RAM
Copiare tutti i valori da NVM sulla RAM
Copia todos los valores de NVM a RAM

Default ➡ All the default values of a page in use are stored in RAM.
L'ensemble des valeurs par défaut d'une page courante est chargé en RAM.
Sämtliche Standardwerte der aktuellen Seite werden ins RAM geladen
Tutti i valori di default di una pagina in uso vengono memorizzati sulla RAM
Todos los valores por defecto de la página en curso están almacenados en RAM.

III - LITE-MENU FOR FIELD SERVICE MODE - MENUS DU MODE SERVICE

1 MAIN MENU - MENU PRINCIPAL - HAUPTMENÜ



TV CONFIGURATION - CONFIGURATION DU TV - GERÄTEKONFIGURATION - CONFIGURAZIONE DEL TV - CONFIGURACIÓN Y TV

Config.	W5Z.....V

Character 1 : Tube type : "A"= 4:3 , "W" =16:9
Character 2 : AV4; "-" = not, "4" = yes
Character 3 : DVD / HDD; "-" = not, "D" = DVD, "H" = HDD (PVR)
Character 4 : "-" = not used
Character 5 : "-" = not used
Character 6 : "-" = not used
Character 7 : "-" = not used
Character 8 : Second Tuner (PIP) : "P" = yes, "-" = not
Character 9 : 3D Comb filter; "3" = yes, "-" = not

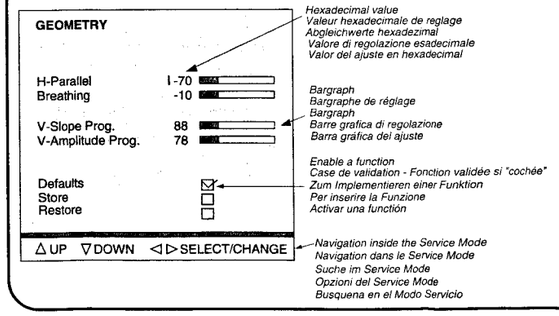
SERIAL-N°	A15...

Character 1 : Factory, A= Angers
Character 2 : Year : (N = 2001)
Character 3 : Month, from 1= January to 9=September...C=December.
Character 4-9 : Serial N° in the month (from 000000 to 999999)
Character 10-12 : Factory reserved

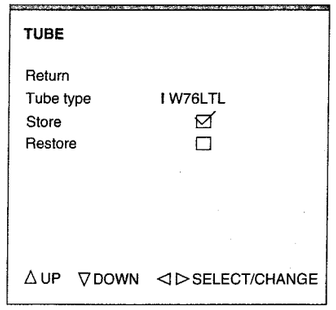
TIME COUNTER - COMPTEUR DE TEMPS - BERTRIEBSSTUNDENZÄHLER - CONTATORE - CONTADOR

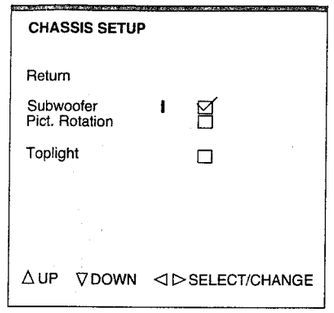
The counter indicates the TV's number of service hours.It is displayed as an eight-digit decimal. It shows the run time in hours and minutes.
Le compteur de temps indique le nombre d'heures de service du TV. L'affichage est composé de huit digits décimaux.
Der Betriebsstundenzähler zeigt die Betriebszeit des Gerätes in Stunden und Minuten an. Die Anzeige erfolgt als achtstellige Dezimalzahl.
Il contatore indica il numero di ore di servizio del TV. Vengono visualizzate tramite 8 digit decimali.Tale contatore mostra le ore e i minuti di funzionamento.
El contador indica el número de horas de servicio de la TV. Se muestra en formato decimal de ocho dígitos. Muestra el tiempo de funcionamiento en horas y minutos.

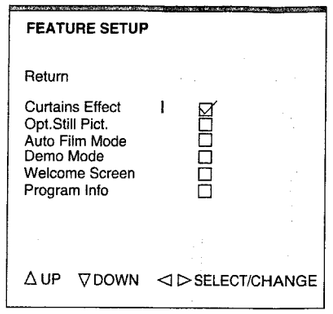
2 SUBMENU - SOUS-MENU - UNTERMENÜ



ALIGNMENT PROCEDURE - PROCESSUS DE REGLAGES - ABGLEICH - VISUALIZZAZIONE DEL VALORE DELLA REGOLAZIONE - PROCEDIMIENTO DE ALINEACION







TUBE

Return

Closes the sub-menu and returns to the "Main Service Menu"

Retourne au menu principal.

Schließt das Untermenü, und das Haupt-Menü des Service-Modus erscheint.

Chiude il sottomenu e fa apparire il menu principale Service Mode.

Cierra el submenú. El menú Field Service Mode aparece.

Press </>: remote control; Vol. +/- : TV keyb.

Tube type

After replacing the NVM, the correct tube type number must be entered (6 characters). Once entered, the tubes geometry and video default values are immediately activated. Variable geometry and video parameters are written to the NVM when the "STORE" line is selected. See below the tube type number list.

Definit le tube exact après changement de NVM.
Les nouvelles valeurs de tubes (avec video et géometrie) sont actives de suite.
Les paramètres de vidéo et de géométrie sont chargés en NVM lorsque STORE est sélectionné. Voir liste ci-dessous.

Nach dem Tausch des NVM (EEPROM) muB der richtige Bildrohrtyp eingegeben werden. Es werden dann sofort die entsprechenden Geometrie-und Video-Defaultwerte aktiviert. Variable Geometrie-und Videowerte müssen mit "STORE" in das NVM geschrieben werden. Liste der Röhren: siehe unten.

Definire il tubo appropriato dopo aver cambiato la NVM; I valori per il nuovo tipo di tubo (con video e geometria) sono immediatamente attivi. I parametri per video e geometria variabili vengono immessi nella NVM quando viene selezionata la funzione Store. Si veda la lista dei tubi riportata sotto.

Definir el tubo correcto después de haber cambiado el NVM.Los nuevos valores de tipo de tubo (con la vídeo y la geometría por defecto) se activan inmediatamente. Los parámetros variables de geometría y vídeo se graban en el NVM al seleccionar la función Store. Vea más abajo la lista de tubos.

TUBE NAME	LIST	DESCRIPTION
W76LTL350X97(U)	W76LTL	16/9 32"XF (1)
W66ELC011X121	W66ELC	16/9 28"XF (2)
W86LQQ350X97(U)	W86LQQ	16/9 36"XF (2)
16X9 NT	-	-

(1) : Invar, dynamic Focus, BSVM TOSH.
(2) : Invar, static Focus, BSVM TOSH.

→ After setting → Store ☑

CHASSIS SETUP

Return

Closes the sub-menu and returns to the "Main Service Menu"

Retourne au menu principal.

Schließt das Untermenü, und das Haupt-Menü des Service-Modus erscheint.

Chiude il sottomenu e fa apparire il menu principale Service Mode.

Cierra el submenú. El menú Field Service Mode aparece.

Press </>: remote control; Vol. +/- : TV keyb.

Subwoofer*

Enable the subwoofer on equiped set.

Validation du Subwoofer sur les appareils équipés .

Einschalten des Subwoofers (wenn vorhanden).

Abilita il subwoofer negli apparecchi equipaggiati.

Validación de que existe el subwoofer.

☑ Subwoofer enable ☐ Subwoofer disable

Picture Rot*

Enables the "Earth Field Correction" function (EFC) on ITC222 16/9 and some large screen 4/3 by adding a special bargraph in the "personal settings" menu (user menus). If is necessary to validate this function if the EFC correction circuit is inserted.

Valide la fonction "correction de champ magnétique terrestre" (EFC) sur les chassis ITC222 16/9 et les appareils 4/3 grand écran par addition d'un bargraphe spécifique dans le menu "réglages personnels" (menu utilisateur). Cette fonction doit être validée lorsque les circuits de correction "EFC" sont insérés.

Freigabe der Erdfeldkorrektur (EFC) bei ITC222 16/9 und einigen 4/3 Geräten. Im Menü "Eigene Einstellungen" (Menü "Installation") wird ein zusätzlicher Anzeigebalken eingeblendet Nach dem Einbau des EFC-Moduls ist diese Funktiozu aktivieren.

Attiva la funzione "Correzione del campo magnetico terrestre" (EFC) sul telaio ITC222 16/9 e alcuni grandi schermi 4/3 , aggiungendo una speciale barra grafica nei menu di "Menu Principale". Se il circuito di correzione è montato, è necessario convalidare questa funzione.

Valida la función "corrección del campo magnético terrestre" (EFC) en los chasis ITC222 and some large screen 4/3 añadiendo una barra gráfica en el menú "Ajustes personales". Es necesario validar ésta función si el circuito de corrección EFC está montado.

☑ Rotation bargraph available menu, EFC function active.

☐ Rotation bargraph suppressed from personal settings, EFC circuit disactivated

Toplight*

Enable the "Toplight" function on equiped set.

Validation de la fonction "Toplight" sur les appareils équipés .

Aktivieren der "Toplight"-Funktion bei entsprechend ausgestatteten Geräten.

Abilitare la funzione "Top Light" nei set equipaggiati

Activa la función "Toplight" en los aparatos equipados con esta opción.

☑ Toplight enable ☐ Toplight disable

FEATURE SETUP

Curtains Effect

Enables the "Curtains Effect" function in the user preferences menus.

Valide la fonction "Effet de rideau" dans le menu des préférences utilisateurs.

Aktiviert die Funktion "Jalousie-Effekt" im Benutzer-Menü "Präferenzen".

Abilita "Effetto Tendina" funzione disponibile nel menu di preferenze.

Activa la función "Efecto Cortina" en los menús de preferencia del usuario.

☑ Curtains Effect function active.

☐ Curtains Effect function disactivated

Optimised Still Picture*

Enables the "Photo Mode" function in the user "Picture/Advanced use" menus .

Valide la fonction "Photo Mode" dans le menu "Image/Autres Réglages" des menus utilisateurs.

Aktivieren der "Photo-Mode"-Funktion im Benutzer-Menü "Bildeinstellungen/Weitere Einstellungen".

Abilitare nel menu "Immagine/Parametri avanzati" la funzione "Photo Mode".

Activa la función "Modo Foto" en el menú de usuario "Imagen/Otros ajustes".

☑ Opt. Still picture active.

☐ Opt. Still picture disactivated

Auto film Mode*

Enables the "Film mode" function in the user "Picture/Advanced use" menus .

Valide la fonction "Mode film" dans le menu "Image/Autres Réglages" des menus utilisateurs.

Aktivieren der "Filmmode"-Funktion im Benutzer-Menü "Bildeinstellungen/Weitere Einstellungen".

Abilitare nel menu "Immagine/Parametri avanzati" la funzione "Modo film".

Activa la función "Modo Film" en el menú de usuario "Imagen/Otros ajustes".

☑ Auto film active.

☐ Auto film disactivated

Demo Mode*

Enables the "Demo" key on the RCU.

Valide la touche "Demo" sur la télécommande.

Einschalten die Taste "Demo" auf der Fernbedienung.

Abilita il tasto "Demo" del telecomando.

Validación de la tecla "Dem" del mando a distancia.

☑ Demo Mode active.

☐ Demo Mode disactivated

FEATURE SETUP

Welcome Screen*

Determines whether or not a Welcome Screen is shown during the Installation Mode. When this checkbox is unchecked the "Contacts" user Menu will be disabled.

Valide l'écran de bienvenue durant le mode Installation.
Lorsque la case "Welcome Screen" n'est pas validée le menu utilisateur "Contacts" n'est pas valide.

Aktiviert den "Willkommen"-Bildschirm bei de Installation. Wenn diese Checkbox nicht markiert ist, wird das Benutzer-Menü "Contacts" nicht angezeigt.

Determina se lo schermo di Benvenuto viene mostrato durante il modo installazione. Se la casella "Contacts" non viene selezionata il menu utilizzatore sarà disabilitato

Determina si durante el modo instalación se muestra o no la pantalla de bienvenida. Cuando no está señalada la casilla el menú del usuario "Contactos" estará desactivado.

☑ Welcome Screen enable

☐ Welcome Screen disable

Program Info*

Enables "Program Info" in the "Overview" menu of user functions.

Valide "Program Info" dans le menu "Sommaire" des fonctions utilisateurs.

Aktivieren der "ProgramInfo"-Funktion im Benutzer-Menü "Übersicht".

Abilitare nel menu "Sommario" la funzione "Programm Info"

Activa la opción "Program Info" en el menú de usuario "Sumario".

☑ Program Info enable.

☐ Program Info disable.

* *Changes are saved directly into NVM*

Tout changement est directement sauvegardé en NVM.

Die Werte werden direkt im NVM gespeichert

I cambiamenti sono salvati direttamente nella NVM.

Los cambios son directamente guardados en la NVM

ALIGNMENT PROCEDURE - PROCESSUS DE REGLAGES - ABGLEICH - VISUALIZZAZIONE DEL VALORE DELLA REGOLAZIONE - PROCEDIMIENTO DE ALINEACION

GEOMETRY	50Hz/100Hz*
Return	
V-Slope	A8
V-Amplitude	74
V-Position	74
V-Linearity	4C
H-Position	78
H-Amplitude	C4
EW-Amplitude	94
EW-Trapezium	6C
EW-Symmetry	70
EW-Upper Corner	6C
EW-Lower Corner	84

△UP ▽DOWN ◁▷SELECT/CHANGE

GEOMETRY	50Hz/100Hz*
H-Parallel	I 80
Breathing	E0
V-Slope Prog.	88
V-Amplitude Prog.	78
Defaults	☐
Store	☐
Restore	☐

△UP ▽DOWN ◁▷SELECT/CHANGE

*Test Bar pattern used : 4/3 (50Hz/60Hz) with a geometric circle. Complete geometry Adjustment is done according to chassis tube format : **4/3** mode for **4/3** tubes; **16/9** mode for **16/9 tubes** : see annexed .*

*Mire de barre utilisée : 4/3 (50Hz/60Hz) avec cercle de géométrie. les réglages complets de géométrie sont faits dans le format du tube équipant l'appareil : mode **4/3** pour les tubes **4/3**; **16/9** pour les appareils équipés de **tubes 16/9** (Voir ci-contre).*

*Verwendetes Testbild : 4/3 (50Hz/60Hz) mit geometrischem Kreis. Ein vollständiger Geometrie-Abgleich ist nur notwendig bei: **4/3-Röhren** Zoomstufe **4/3** und **16/9-Röhren** Zoomstufe **16/9** (siehe unten) .*

*Formato Testo utizzato: 4/3 (50Hz/60Hz) con cerchio geometrico. La regolazione viene effettuata nel formato del telaio del cinescopio: **4/3** :tubo **4/3**; **16/9** : tubo **16/9**.*

*Carta de ajuste utilizada : 4/3 (50Hz/60Hz) con círculo geométrico. El ajuste completo de la geometría hay que hacerlo de acuerdo con el tipo de chasis y el formato del tubo : Modo **4/3** para tubos de **4/3**; modo **16/9** para tubos de **16/9**.*

** 50/100Hz or 60/120Hz according to signal*

GEOMETRY

V-Slope

- Apply a test pattern signal to the TV with a single horizontal and vertical line on the screen.
- Select the **"V-Slope"** line of the menu. The bottom half of the screen will go black.
- Adjust VS until the centre line of the pattern is just invisible.
- Leave the line **"V-Slope"**.
- Switch the test pattern signal to the crosshatch geometry pattern.
- Perform the geometry adjustments described below.

- Appliquer une mire de barres avec seulement une ligne blanche horizontale en milieu de l'écran.
- Sélectionner la ligne **"V-Slope"**. La moitié basse de l'écran devient noire.
- Aligner **"V_Slope"** pour que la ligne médiane soit à peine non visible.
- Commuter la mire en mode de réglage de géométrie (quadrillage).
- Effectuer les reglages de geometrie.

- Speisen Sie ein Testbild mit einem horizontalen Strich in der Bildmitte ein.
- Wählen Sie im Menü die Funktion "V-Slope" an. Die untere Bildhälfte wird dunkel.
- Stellen Sie "V-Slope" so ein, daß die Mittellinie fast verschwindet.
- Verlassen Sie die Funktion "V-Slope".
- Speisen Sie ein Gittertestbild ein.
- Nehmen Sie die Geometrieeinstellungen wie nebenstehend beschrieben vor.

- Applicare un monoscopio con un'unica linea bianca orizzontale al centro dello schermo
- Selezionare la riga **"V-slope"** del menu. La parte bassa dello schermo viene oscurata.
- Allineare la "Vertical Slope" in modo che la linea centrale sia appena visibile
- Abbandonare la riga **"V-slope"**.
- Posizionare il monoscopio
- Effettuare le regolazioni di geometria descritte in precedenza
- Memorizzare.

- Aplique una carta de ajuste con sólo una línea blanca horizontal y una vertical en el centro de la pantalla.
- Seleccionar en el menú, la línea **"V-Slope"**. La mitad inferior de la pantalla se pondrá oscura.
- Ajuste **"V-Slope"** justo hasta que la línea horizontal sea invisible.
- Cambiar la carta de ajuste a "cuadrícula" y efectuar los ajustes de geometria descritos a continuación
- Antes de salir, memorizar con "Store"

→ After setting → Store ☑

GEOMETRY	
V-Amplitude	
V-Position	
V-Linearity	
H-Position	
H-Amplitude	
EW - Amplitude	
EW - Trapezium	
EW-Symmetry	
EW-Upper Corner	
EW-Lower Corner	

→ After setting → Store ☑

GEOMETRY

H-Parallel

Breathing
EHT compensation

Factory adjusted
Réservé au réglage usine
Reserviert für Fabrikeinstellungen
Riservato alla regolazione di fabbrica
Ajuste reservado fábricas

V-Slope Prog.*

Select the **"V-Slope Prog."** line of the menu and process as V-Slope adjustment.

Sélectionner la ligne **"V-Slope Prog."** et procéder comme pour le réglage V-Slope

Wählen Sie die Menüzeile **"V-Slope Prog."** an und fahren mit dem Abgleich wie unter „V-Slope" beschrieben fort.

Selezionare la linea **"V-Slope Prog."**nel menu e procedere come per la regolazione V-Slope.

Seleccionar la línea **"V-Slope Prog."**del menú y proceder como para el ajuste V-Slope.

V-Amplitude Prog.*

V-Slope / V-Slope Prog.

Correct No correct

** An error message is displayed in case of connected progressive (2H/1V) signal on components (AV4) input.*

Un message d'erreur est affiché en cas de source de signal progressif (2H/1V) connectée sur l'entrée composantes (AV4).

Sollte eine progressiv abgetastete Signalquelle (1H/1V) am Komponenten-Eingang AV4 angeschlossen sein, erscheint eine Fehlermeldung.

Un messaggio messaggio Error viene visualizzato nel caso una sorgente segnale progressivo (2H/1V) collegato sull'entrata component AV4.

Se muestra un mensaje de error en el caso de conectar una señal progresiva (2H/1V) en la entrada de componentes (A V4).

→ After setting → Store ☑

RASTER SHIFT CORRECTION - CENTRAGE DE BALAYAGE HORIZONTAL - BILDLAGE-EINSTELLUNG CENTRATURA DEFLESSIONE ORIZZONTALE - CORRECCIÓN DEL CENTRADO HORIZONTAL

- Check and adjust if necessary the Raster shift correction.
  See "Adjustments" table p. 11.

- Contrôler et régler si nécessaire le centrage de balayage horizontal
  Voir le tableau des réglages page 11.

- Überprüfen Sie die Einstellung der Bildlage und korrigieren Sie diese ggf. wie in der Tabelle "Abgleich" auf Seite 11 beschrieben.

- Controllare e regolare se necessario la correzione raster.
- Vedere le regolazioni alla tavola pag 11.

-Comprobar y ajustar si es necesario el centrado del barrido horizontal.
Ver la tabla de ajustes en pág. 11.

GEOMETRY MODE ALIGNMENT

A ITC222 16/9 set needs a geometry alignment only in the 16/9 mode and additionally an alignment of V-Slope Prog., V-Amplitude Prog. in progressive mode. All other formats and zoom mode are calculated.

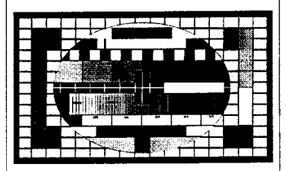
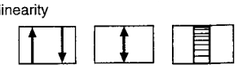
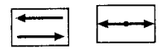
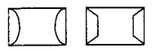
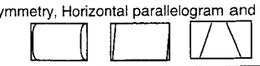
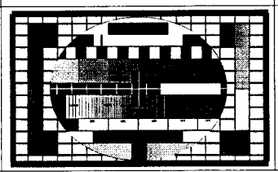
Un chassis ITC222 16/9 ne nécessite des réglages de géométrie que dans le mode 16/9 et additionnellement un réglage de V-Slope Prog., V-Amplitude Prog en mode progressif. La géométrie des autres formats et zoom est calculée.

Beim Chassis ITC222 ist ein Geometrie-Abgleich nur im Bildformat 16:9 und zusätzlich der Abgleich von V-Slope Prog und V-Amplitude Prog. im Progressiv-Mode not-wendig. Alle anderen Formate und Zoomstufen werden berechnet.

I telai ITC222 16/9 richiedono la regolazione di geometria solo in formato 16/9 e un addizionale regolazione V-Slope Prog., V-Amplitude Prog in progressive mode. tutti gli altri formati e modo zoom vengono calcolati.

Un TV ITC222 16/9 necesita ajuste de geometría sólo en el modo 16/9 0 y adicionalmente un ajuste del V-Slope Prog y V-Amplitude Prog en modo progresivo. Todos los demás formatos y modos de zoom se calculan automáticamente.

Signal : 4/3 test pattern

16 / 9 standard mode zoom 0		**Overscan V=107%, H =104%** 1- Adjust Vertical Slope. 2- Adjust Vertical position and Vertical amplitude 3- Adjust Vertical linearity  4- Adjust Horizontal Position and Horizontal amplitude  5-Adjust EW Amplitude, EW Upper/Lower Corner,  6-Adjust EW Symmetry, Horizontal parallelogram and EW Trapezium 
16 /9 progressive mode		**Overscan V=107%, H =104%** 1- Adjust Vertical Slope. 2- Adjust Vertical Amplitude

ALIGNMENT PROCEDURE - PROCESSUS DE REGLAGES - ABGLEICH - VISUALIZZAZIONE DEL VALORE DELLA REGOLAZIONE - PROCEDIMIENTO DE ALINEACION

VIDEO PAL BG

Return
Peak White I
Whitepoint R 74
Whitepoint G 64
Whitepoint B 60

G2 alignment
Scalling Colour 66
Scalling Brightness 84
Cutoff R 80
Cutoff G E0

△UP ▽DOWN ◁▷SELECT/CHANGE

VIDEO PAL BG

Scaling Contrast I DE
Contrast max ☐
Text Contrast D8

Full White 4/3 38
Drive Level 60
Defaults ☐
Store ☐
Restore ☐

△UP ▽DOWN ◁▷SELECT/CHANGE

VIDEO PAL

Return
Closes the sub-menu and returns to the "Main Service Menu"
Retourne au menu principal.
Schließt das Untermenü, und das Haupt-Menü des Service-Modes erscheint.
Chiude il sottomenu e fa apparire il menu principale Service Mode.
Cierra el submenú. El menú Field Service Mode aparece.
Press </>: remote control; Vol. +/- : TV keyb.

Peak-White** ☼+◑+◕ = standard
Peak white test pattern
white =100%
PAL, SECAM, RGB,RGB_AUX
COMP1H, COMP2H
Colourimeter

Tube Type	[Nits]
W76LTL	310
W66ELC	-
W86LQQ	300

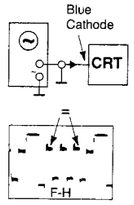
Whitepoint R* ☼+◑+◑ = standard
Whitepoint G* Grey scale test pattern
Whitepoint B* white =50%
RF-PAL/SECAM
RGB, RGB_AUX
COMP1H, COMP2H
↑ grey

G2 Alignment
Display a full screen black OSD. Adjust G2 with SCREEN potentiometer: see adjust table (p.11/12)
Ecran totalement noir.
Régler G2 avec le potentiomètre SCREEN : voir tableau des réglages.(p.11/12).
Das Bild wird dunkelgetastet
Gleichen Sie G2 mit dem SCREEN-Potentiometer wie auf seite 11/12. beschrieben ab.
Visualizzare uno schermo nero e regolar il potenziomero G2 riferendos alla tabella regolazione (p.11/12)
Pantalla totalmente oscura sin OSD. Ajustar la G2 con el potenciómetro SCREEN: ver tabla (p.11/12).

Color standard or RGB is autodetected and displayed opposite the displayed opposite the menu title.

VIDEO PAL

Scaling Colour* ☼+◑+◑ = standard
PAL, SECAM, RGB
COMP1H, COMP2H
75% Colour bar test pattern via RF.



Scalling Brightness ☼+◑+◑ = standard
Grey scale test pattern
white =100%
black

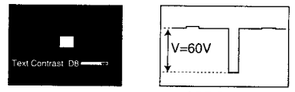
Cutoff R
Cutoff G
Scalling Contrast
Factory adjusted
Réservé au réglage usine
Reserviert für Fabrikeinstellungen
Riservato alla regolazione di fabbrica
Ajuste reservado fábricas

Contrast max
Set (temporary) the user contrast bargraph to max. When "Contrast max." is deselected the user contrast bargraph set back to the previous value.
Met (temporairement) le baragraphe du réglage de contraste utilisateur au maximum.
Lorsque "Contrast max." est déselectionné Le baragraphe revient à sa valeur initiale.
Setzt (temporär) den User-Kontrast auf Max.Nach dem Abschalten von 'Contrast max' wird auf der Bar-Graph auf vorherigen Wert zurückgesetzt
Regolare (momentaneamente) la barragrafica del contrasto al massimo.Quando "Contrasto massimo" viene disinserito la barra grafica utilizzatore viene regolata al volume precedente.
Ajusta (temporalmente) la barra de contraste del usuario al máximo. Cuando no esté seleccionado "Contraste Máximo" la barra de contraste del usuario vuelve a su valor anterior.
☑ Contrast max. enable
☐ Contrast max. disable

→ After setting → Store (+) ☑

VIDEO PAL

Text Contrast ☼+◑+◑ = standard
Adjust Text contrast for V=60V at pin 11 (Blue) of the CRT : 40% V peak white
Ajuster Text Contrast pour obtenir un niveau de sortie V=60V sur la cathode Bleue du tube (point 11 de la CRT): 40% V peak white.
Stellen Sie mit Text Contrast V=60V an der Blau-Kathode (Pin 11) der Bildröhre ein: 40% Vpeak white
Regolare il guadagno contrasto televideo per ottenere al catodo del blu un livello pari a V=60V (CRT pin 11): 40% Vpeak white.
Ajuste Text Gain para dejar V=60V en azul del TRC (CRT Patilla 11): 40% Vpeak white



CRT Pin 11

Full White 4/3 Factory adjusted
Réservé au réglage usine
Reserviert für Fabrikeinstellungen
Riservato alla regolazione di fabbrica
Ajuste reservado fábricas
Drive Level

→ After setting → Store (+) ☑

Note :
* Adjust separate for PAL RF/SECAM RF and RGB_AUX
** After PEAK white adjustment control whitepoints setting.
Repeat the adjustments if necessary.

EVENT HISTORY 000029:04

Return

Clear Event Codes I ☐

Code	Count	Time Stamp
36	002	000028:34
00	000	000000:00
00	000	000000:00
00	000	000000:00
00	000	000000:00

EVENT HISTORY

Return
Closes the sub-menu and returns to the "Main Service Menu"
Retourne au menu principal.
Schließt das Untermenü, und das Haupt-Menü des Service-Modes erscheint.
Chiude il sottomenu e fa apparire il menu principale Service Mode.
Cierra el submenú. El menú Field Service Mode aparece.
Press </>: remote control; Vol. +/- : TV keyb.

Clear Event Codes
To clear all event codes stored in the NVM. Action: Long press (> 2.5sec.).
Press </>/OK: remote control.

CODE
1- The last five error codes are stored and displayed with a time stamp from the run time counter
2- If an error occurs that is already in the list the time stamp is updated .
3- The errors are displayed with the most recent error on top of the list. The others follow with descending time stamps.

List of Errors Codes : see table

1- Mémorise les cinq derniers codes erreurs.
Le cumul du temps de fonctionnement entre le démarrage initial du chassis en usine et le moment où s'est produit l'erreur est indiquée en colonne "Time stamp".
2. Si une erreur qui est déjà dans la liste survient de nouveau le temps cumulé (Time stamp) est mis à jour.
3- Les erreurs les plus récentes sont affichées en tête de liste. Les autres suivent en descendant.

Voir ci-après la liste des codes erreurs

1. Es werden die letzten 5 Fehlercodes mit der Laufzeit des Auftretens angezeigt.
2. Tritt ein Fehler auf, der schon in der Liste steht, wird nur die Laufzeitanzeige aktualisiert.
3. Der zuletzt aufgetretene Fehler steht an erster Stelle. Die vorhergegangenen Fehler werden nach abnehmender Laufzeit gelistet.

Aufstellung der Fehlercodes: siehe Tabelle

1- Gli ultimi cinque codici errore vengono memorizzati e visualizzati con un time stamp cial run time counter.
2- Se si manifesta un errore già presente nella lista il time stamp viene aggiornato
3- Gli errori vengono visualizzati con l'errore più recente in cima alla lista.
Gli altri errori seguono con sequenza discendente del time stamp

Lista Codici Errore: segue tabella

1- Los últimos 5 códigos de error son almacenados desde el contador de tiempo de vida y mostrados en la columna "time stamp"
2- Si ocurre un error que ya existe en la lista, éste se actualizará al último "time stamp"
3- Los errores más recientes son los mostrados en la parte superior de la lista. Los demás siguen en orden descendiente de "time stamp"

Lista de códigos de error: ver tabla

SOUND SETTINGS

Return

Effect Strength (MED) I 3F
Effect Strength (HIGH) 43
Low Pass Frequency 08
High Pass Frequency 04
Sub-woofer corner Freq. 14

Defaults ☐
Store ☐
Restore ☐

△UP ▽DOWN ◁▷SELECT/CHANGE

SOUND SETTINGS

Return
Closes the sub-menu and returns to the "Main Service Menu"
Retourne au menu principal.
Schließt das Untermenü, und das Haupt-Menü des Service-Modes erscheint.
Chiude il sottomenu e fa apparire il menu principale Service Mode.
Cierra el submenú. El menú Field Service Mode aparece.
Press </>: remote control; Vol. +/- : TV keyb.

Adjust "Sound settings" registers according to the TV environments (refer to the below table) when the NVM memory has been replaced.
On entering this menu the sound mode will be switched to normal and the "Dynamic Bass" feature activated.

Règle le contenu des registres "Sound settings" selon l'environnemnt du TV en cas de remplacement de la NVM. (voir table ci-dessous) en entrant dans ce menu le mode son est commuté en normal et les caractéristiques "Dynamic Bass" sont activées.

Wurde das NVM (EEPROM) erneuert, müssen im Menü "SOUND SETTINGS" die Werte entsprechend der unten stehenden Tabelle eingestellt werden.
On entering this menu the sound mode will be switched to normal and the "Dynamic Bass" feature activated.

Quando viene sostituita la memoria NVM regolare i registri "Sound setting" in funzione all'anbientazione TV (riferirsi alla tabella sottoindicata).
On entering this menu the sound mode will be switched to normal and the "Dynamic Bass" feature activated.

Ajustar los "Parámetros de Sonido" de acuerdo a las características del modelo de TV (ver tabla),después de sustituir la memoria NVM.
On entering this menu the sound mode will be switched to normal and the "Dynamic Bass" feature activated.

Effect Strength (MED)	3F
Effect Strength (HIGH)	43
Low Pass Frequency	08
High Pass Frequency	04
Sub-woofer corner Freq.	14

→ After setting → Store (+) ☑

MISCELLANEOUS

Return

Clear Progs I ☐
Default Presets ☐
Bus Quiet ☐
Development Support ☐
Restore Factory Settings ☐
FFI-Bit ☐
Switch 2nd Tuner to Main ☐

△UP ▽DOWN ◁▷SELECT/CHANGE

MISCELLANEOUS

Return
Closes the sub-menu and returns to the "Main Service Menu"
Retourne au menu principal.
Schließt das Untermenü, und das Haupt-Menü des Service-Modes erscheint.
Chiude il sottomenu e fa apparire il menu principale Service Mode.
Cierra el submenú. El menú Field Service Mode aparece.
Press </>: remote control; Vol. +/- : TV keyb.

Clear Progs.
Clears all programms stored in memory and resets all Picture and Sound settings to the factory defaults. The AUTO INSTALL (out of factory) mode can be initialised by a long press (>2s.) of the selection button.
Efface tous les programmes mémorisés.
Valeurs SON et IMAGES: valeurs usines. Fonction valide par une longue pression (>2s.) sur la touche de sélection </>.
Löscht alle Programmplätze und setzt alle Bild- und Toneinstellungen auf Fabrikwerte zurück. Der AUTO-INSTALL-Modus kann durch einen langen Knopfdruck (>2s) initialisiert werden.
Clear Prog.
Cancella tutti i programmi in memoria e regola i Valori analogici SUONO IMMAGINE: ai livelli di fabbrica.Riportare la TV al modo Selezione: pressione prolungata: 2 sec. su il pulsante </>.
Programa de borrado.
Borra todos los programas almacenados en la memoria.Valores analógicos de IMAGEN y SONIDO: valores de fábrica.Regreso a la TV para "salir del modo fábrica".Selección: Presión larga igual a 2s.

☑ Clear Progs enable
☐ Clear Progs disable

Default Presets
Sets the default (ROM) value for all the factory sound and picture presets.
Initialise aux valeurs par défaut (ROM) les réglages usine du son et de l'image.
Aktiviert die Default- (ROM-) Werte für alle Ton- und Bildvoreinstellungen.
Regolare i valori di default (ROM) valori di fabbrica per le regolazioni suono e Video
Fija el valor del valor por defecto (ROM) para todas las precolocaciones del sonido y del cuadro de la fábrica.

☑ Default Presets enable
☐ Default Presets disable

ALIGNMENT PROCEDURE - PROCESSUS DE REGLAGES - ABGLEICH - VISUALIZZAZIONE DEL VALORE DELLA REGOLAZIONE - PROCEDIMIENTO DE ALINEACION

MISCELLANEOUS

Return

Clear Progs; I ☐
Default Presets ☐
Bus Quiet ☐
Development Support ☐
Restore Factory Settings ☐
FFI-Bit ☐
Switch 2nd Tuner to Main ☐

△ UP ▽ DOWN ◁ ▷ SELECT/CHANGE

MISCELLANEOUS

Bus Quiet

In "Bus Quiet", the NVM can be read, modified and reprogrammed by means of a NVM Programmer.
To access "Bus Quiet" : Long press ">".
The TV should remain in "Bus Quiet" mode until either Exit, Left, Right, Up,Down or Standby keys on the RCU or local keyboard are pressed; at which point the TV should carry out a warmstart in order to prevent differences between the NVM and RAM contents.
After returning from Bus Quiet, the software checks the NVM content.
If it is not valid, the software perform a new default writing of the NVM content.

En mode bus quiet la NVM peut être lue, modifiée et reprogrammée.
Accès au mode Bus quiet :
Longue pression ">".
Utiliser l'une des touches Exit, Gauche, Droite Haut, Bas, standby ou une des touches du clavier pour sortir le téléviseur du mode bus quiet.
A partir de ce point de sortie le démarrage du téléviseur s'effectue à chaud pour éviter toute différence des contenus RAM et NVM.
En sortie de mode bus quiet, le logiciel contrôle le contenu de la NVM.
S'il n'est pas correct le logiciel exécute une nouvelle écriture par défaut de celle-ci.

Im "Bus Quiet"-Modus kann der Inhalt des NVM mittels eines externen NVM-Programmiergerätes ausgelesen, geändert oder neu programmiert werden. "Bus Quiet" wird einem längeren Druck auf ">" aktiviert.
Das Gerät bleibt solange im "Bus Quiet" - Mode, bis durch Druck auf die EXIT-, LINKS-, RECHTS-, HOCH-, RUNTER- oder STANDBY-Taste (am Gerät oder auf der Fernbedienung) ein Warmstart des Gerätes veranlaßt wird, um unterschiedliche Daten in RAM und NVM zu vermeiden.
Es folgt ein Software-Check des NVM-Inhaltes.
Sollte dieser nicht gültig sein, wird der Inhalt mit Default-Werten überschrieben.

In Modo Bus Quiet, la memoria NVM può essere letta, modificata o riprogrammata.
Per accedere al modo Bus Quiet premere a lungo il tasto ">".
Il TV rimane in modo Bus Quiet fino a che vengono premuti i tasti Exit, o Destro Sinistro, Su o Giù o Standby dal telecomando o dalla tastiera locale; a questo punto il TV riparte per evitare interferenze tra i contenuti della memoria NVM e della RAM.
All'uscita dal modo Bus Quiet, il software controlla il contenuto della memoria NVM. Se tale contenuto non è valido, il software provvede a una nuova programmazione della NVM con l'inserimento dei dati di default.

En bus quieto, la NVM puede ser leída, modificada y reprogramada.
Acceso a bus quieto : Larga presión en ">"
El TV permanecerá en bus quieto hasta que se pulse cualquiera de las teclas siguientes: Exit, "<", "^", "V", ">"o Standby del telemando o del teclado.
En este momento el TV arrancará para evitar cualquier diferencia entre los contenidos de la RAM y NVM.
Al salir del modo bus quieto, el software comprueba el contenido de la NVM.
Si no coincide, el software ejecuta la escritura de los datos en la NVM.

☑ Bus quiet enable ☐ Bus quiet disable

MISCELLANEOUS

Developpement Support

Factory adjusted
Réservé au réglage usine
Reserviert für Fabrikeinstellungen
Riservato alla regolazione di fabbrica
Ajuste reservado fábricas

Restore Factory Settings

Restores the correct "out of box" condition. Some settings will be restored from a reserved backup NVM area and others will be defaulted from the ROM.

Remet les réglages aux valeurs de sortie usine. Certaines valeurs sont restaurées à partir d'une zone de mémoire NVM et d'autres à partir des valeurs par défaut de la ROM.

Überschreibt den jeweiligen Abgleich mit Werten aus dem ROM und aus besonderen, reservierten Bereichen des NVMs.
Der Abgleich entspricht dann dem, den das Gerät beim Verlassen der Produktionsstätte hatte.

Rimettere le regolazioni ai valori di fabbrica Alcune regolazioni saranno ripristinate da una zona riservata dalla memoria NVM, altre regolazioni saranno riprese dalla ROM di default.

Vuelve a poner los ajustes a los valores de salida de la fábrica.
Se restauran algunos valores a partir de una zona de memoria NVM y de otros a partir de los valores por defecto de la ROM.

FFI - Bit	Fast Filter (IF / PLL) Filtre rapide (FI / PLL) Schnelles filter (ZF / PLL) Filtro /rapido (IF / PLL) ☑ Asia ☐ Europe

Switch 2nd Tuner to Main

The current signal on the second tuner is switched to the main screen and the AV1 output.
Changing program/channel on main tuner, the main screen stays on the second tuner.

Commute le signal du second tuner en image principale et en sortie AV1.
L'écran reste sur l'image du secont tuner malgré tout changement de programme/canal sur le tuner principal.

Das jeweilige Eingangssignal des zweiten Tuners wird auf dem Hauptbildschirm dargestellt und auf den AV1-Aushang geschaltet.
Bei einem Programm/Kanalwechsel auf dem Haupttuner bleibt das Bild des zweiten Tuners auf dem Hauptbildschirm sichtbar.

Commutare il segnale del secondo tuner sullo schermo e in uscita AV1
Lo schermo resta sull'immagine del secondo tuner, malgrado tutti i cambiamenti di progamma/canale sul tuner principale

La señal actual en el segundo sintonizador se cambia a la pantalla principal y a la salida AV1.
Program/channel que cambia en el sintonizador principal, la pantalla principal permanece en el segundo sintonizador.

☑ Switch 2nd Tuner to Main enable
☐ Switch 2nd Tuner to Main disable

ERROR CODES

EN

11	I2C bus_1 data line held low
12	I2C Bus_1 clock line held low
13/95	I2C Bus_2 data line held low
14/95	I2C Bus 2 clock line held low
15	I2C Bus_3 data line held low
16	I2C Bus 3 clock line held low
17	I2C Bus_4 data line held low
18	I2C Bus 4 clock line held low
19	Invalid chassis detected
25	Main tuner doesn't answer anymore
26	Secondary tuner (PIP) doesn't answer anymore
27	IX300 (TEA6415C) doesn't answer anymore
28	IV300 (TA1360) doesn't answer anymore
29	9V IV300 Power down detection
31	IV400 (TDA9330H) doesn't answer anymore
32	8V IV400 Power down detection
33	Deflection:Safety circuit has detected a problem (4/IV400) - BV500 not connected
34	PHI2_REF not available
35	NRF bit problem. IV400 TDA9330 (HOP) oscillator not locked
36	Tube gets not warm in time
37	V_GUARD does not available
38	XPR Bit. IV400 (TDA9330H).X radiation safety activated.
39	PH1 problem, IV400 TDA9330 (HOP) oscillator not lock in time
41	IA001 (MSP) doesn't answer anymore
42	The reset bit IA001 (MSP) is active
45	Wrong MSP is fitted
46	Main FI doesn't answer anymore
47	FI 5V Power down detection
48	PIP FI doesn't answere anymore
49	5V PIP FI Power down detection
51	IV100 (VSP9407) doesn't answer anymore
52	Upconverter IV100 : Power down detection (3V3_UC)
54	NVM IR005 (M24C64) doesn't answer anymore
55	IR006 (PCF8574) doesn't answer anymore
56	Bit FLS problem IV400 (TDA9330)
58	Code validation failed
59	Wrong IR001 is fitted
61	5VON not present
62	5V and 8V not available
63	Unexpected level on NMI line found
64	XRP adjustment detected overvoltage
65	Write to NVM failed
66	NVM Contents are corrupt
68	The switched 5V not available
69	H/V Synch. for OSD missing
72	IX400 (CXA2151) doesn't answer anymore
93	IR001 : Err_I2C Bus_1 and Err_I2C Bus_2 (Bus drivers)
94	IR001 : Err_I2C Bus_3 and Err_I2C Bus_4 (Bus drivers)
95	IR001 : Err_I2C. Port driver can not be installed
96	IR001 : ADC driver can not be installed
97	IR001 : AV-link driver can not be installed
98	SDRAM (IR110) Problematic SDRAM timing
99	IR001 Watchdog hit

FR

11	I2C bus_1 data est au niveau bas
12	I2C bus_1 clock est au niveau bas
13/95	I2C bus_2 data est au niveau bas
14/95	I2C bus_2 clock est au niveau bas
15	I2C bus_3 data est au niveau bas
16	I2C bus_3 clock est au niveau bas
17	I2C bus_4 data est au niveau bas
18	I2C bus_4 clock est au niveau bas
19	Erreur de chassis détecté
25	Tuner principal ne répond pas
26	Tuner secondaire (PIP) ne répond pas
27	IX300 (TEA6415C) ne répond pas
28	IV300 (TA1360) ne répond pas
29	Chute de l'alimentation 9V IV300
31	IV400 (TDA9330H) ne répond pas
32	Chute de l'alimentation 8V IV400
33	Déviation: Circuit de sécurité a détecté un problème (4/IV400) - BV500 déconnecté
34	PHI2_REF absent
35	NRF bit problème IV400 TDA9330 (HOP) oscillateur non verrouillé
36	Tube ne chauffe pas à temps
37	V_GUARD does not available
38	XPR IV400 (TDA9330H).Sécurité rayons X activée.
39	PH1, IV400 TDA9330 (HOP) oscillateur non verrouillé à temps
41	IA001 (MSP) ne répond pas
42	IA001 (MSP) en reset
45	Mauvais MSP monté
46	FI principale ne répond pas
47	Chute alimentation 5V FI principale
48	FI PIP ne répond pas
49	Chute alimentation 5V FI PIP
51	IV100 (VSP9407) ne répond pas
52	Chute de l'alimentation 3V3_UC - Upconverter IV100
54	NVM IR005 (M24C64) ne répond pas
55	IR006 (PCF8574) ne répond pas
56	Problème bit FLS IV400 (TDA9330)
58	Mauvaise validation de Code erreur
59	Mauvais IR001 monté
61	5V n'apparaît pas au départ
62	5V et 8V absents
63	Niveau incorrect sur la ligne NMI
64	Surtension détectée
65	Problème écriture NVM
66	Contenu NVM corrompu
68	5V commuté disparaît.
69	Synch. H/V (OSD) absente
72	IX400 (CXA2151) ne répond pas
93	IR001 : Problème d'installation des drivers des bus I2C1 et I2C2
94	IR001 : Problème d'installation des drivers des bus I2C3 et I2C4
95	IR001 : Problème d'installation des ports ou des drivers I2C
96	IR001 : Problème d'installation des drivers ADC
97	IR001 : Problème d'installation du driver AV-link
98	Problème du timing SDRAM (IR110)
99	IR001 Watchdog actif

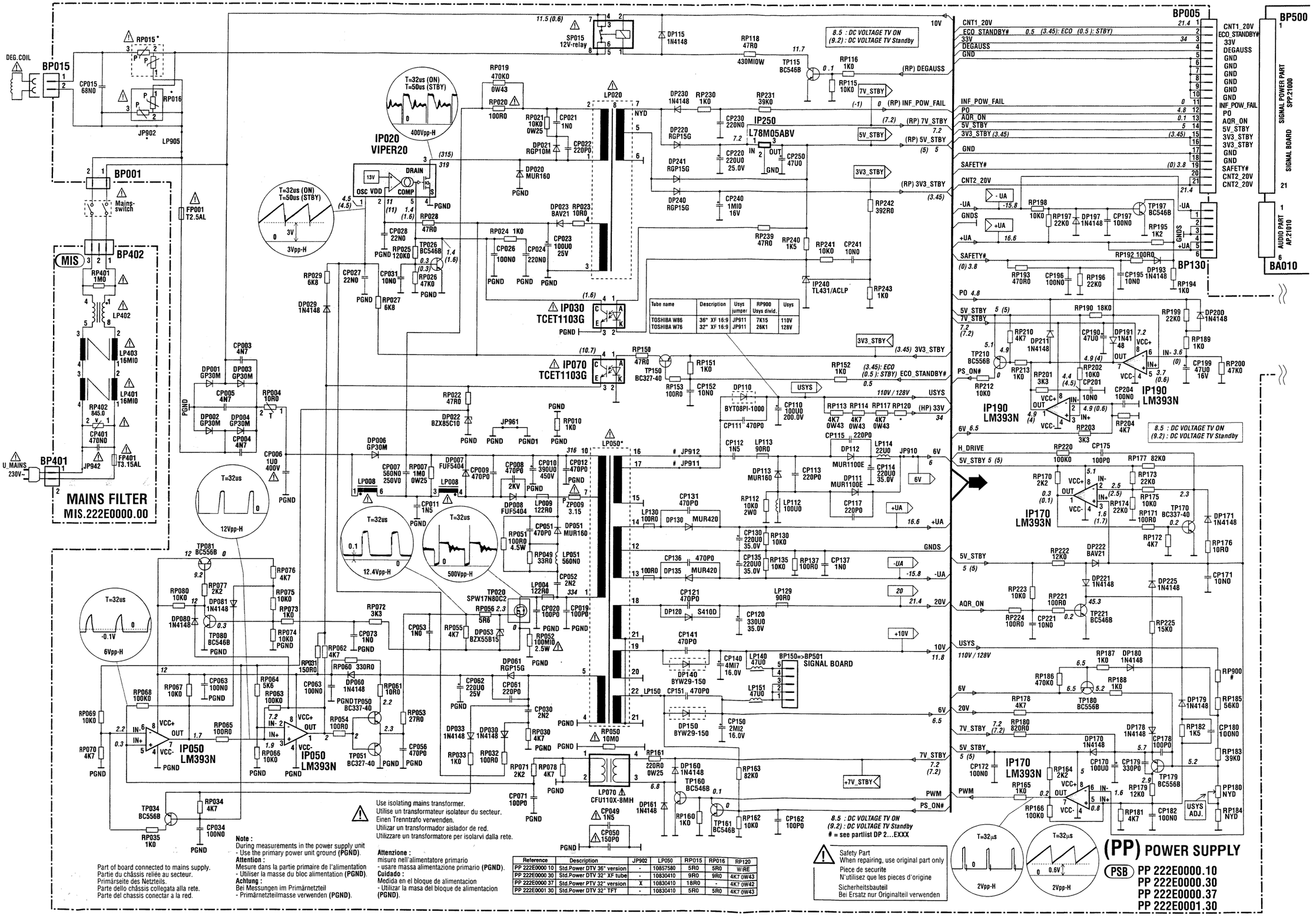
DE

11	I2C Bus_1 Data ist immer L
12	I2C Bus_1 Clock ist immer L
13/95	I2C Bus_2 Data ist immer L
14/95	I2C Bus_2 Clock ist immer L
15	I2C Bus_3 Data ist immer L
16	I2C Bus_3 Clock ist immer L
17	I2C Bus_4 Data ist immer L
18	I2C Bus_4 Clock ist immer L
19	Falsche Chassisvariante
25	Haupttuner/ZF Tunerteil antwortet nicht
26	Zweiter (PIP-)Tuner Tunerteil antwortet nicht
27	IX300 (TEA6415C) antwortet nicht
28	IV300 (TA1360) antwortet nicht
29	Power Down Detection IV300 (9V zu geringe Betriebsspannung)
31	IV400 (TDA9339H) antwortet nicht
32	Power Down Detection IV400 (8V zu geringe Betriebsspannung
33	Ablenkung: Schutzschaltung ist aktiv (4/IV400) - BV500 nicht verbunden
34	NHF Flag IV400 (TDA9330H) Pin 13 PHI2_REF fehlt
35	NRF Flag IV400 (TDA9330H) Referenz-PLL (Clock) nicht eingerastet
36	Bildrohr ist nicht rechtzeitig aufgeheizt (Signal Icut nicht korrekt)
37	NDF Flag IV400 (TDA9330H) Pin 9 V_GUARD fehlt oder dauert zu lange
38	XPR Flag IV400 (TDA9330H) Überspannungsschutz Hochspannung hat ausgelöst
39	PH1 Flag IV400 (TDA9330H) Referenz-PLL (Clock) nicht rechtzeitig eingerastet
41	IA001 Audio-MSP antwortet nicht
42	IA001 Audio-MSP Reset-Bit ist aktiv
45	Falscher MSP-Typ eingesetzt
46	Haupttuner/ZF ZF-Teil antwortet nicht
47	Power Down Detection ZF-Teil Haupttuner/ZF (5V zu geringe Betriebsspannung)
48	Zweiter (PIP-)Tuner ZF-Teil antwortet nicht
49	Power Down Detection ZF-Teil PIP-Tuner/ZF (5V zu geringe Betriebsspannung)
51	IV100 (VSP9407) antwortet nicht
52	Power Down Detection (3V3_UC zu geringe Betriebsspannung)
54	NVM IR005 (M24C64) antwortet nicht
55	IR006 (PCF8574, Portexpander) antwortet nicht
56	FLS Flag IV400 (TDA9330H) Pin 5 ('FLASH')
58	Event-Code konnte nicht bestätigt werden
59	Falsche Version des Microcontrollers IR001
61	Geschaltete 5VON nicht vorhanden
62	5V und 8V nicht vorhanden
63	Unerwarteter Pegel auf POWER_FAIL (NMI-Leitung: z.B. Überschlag im Bildrohr oder zu niedrige Netzspannung)
64	XRP-Abgleich detektierte Überspannung (nur US-Versionen)
65	Schreiben in den XRP-NVM schlug fehl (nur US-Versionen)
66	Daten im XRP-NVM sind defekt (nur US-Versionen)
68	Geschaltete 5V nicht vorhanden (während POWER_SAFETY aktiv (=L) ist)
69	H/V-Synch für OSD fehlen
72	IX400 (CXA2151, Eingangsschalter AV4) antwortet nicht
93	Soft.problem: IR001 konnte Bustreiber für I2C-Bus_1 und II2C-Bus_2 nicht korrekt installieren
94	Soft.problem: IR001 konnte Bustreiber für I2C-Bus_3 und II2C-Bus_4 nicht korrekt installieren
95	Software problem: IR001 konnte Porttreiber für I2C-Busse nicht korrekt installieren
96	Software problem: IR001 konnte Treiber für den ADC nicht korrekt installieren
97	Software problem: IR001 konnte AV-Linktreiber nicht korrekt installieren
98	Software problem: IR001 konnte SDRAM-Timing nicht korrekt installieren
99	Watchdog-Timer im IR001 hat ausgelöst

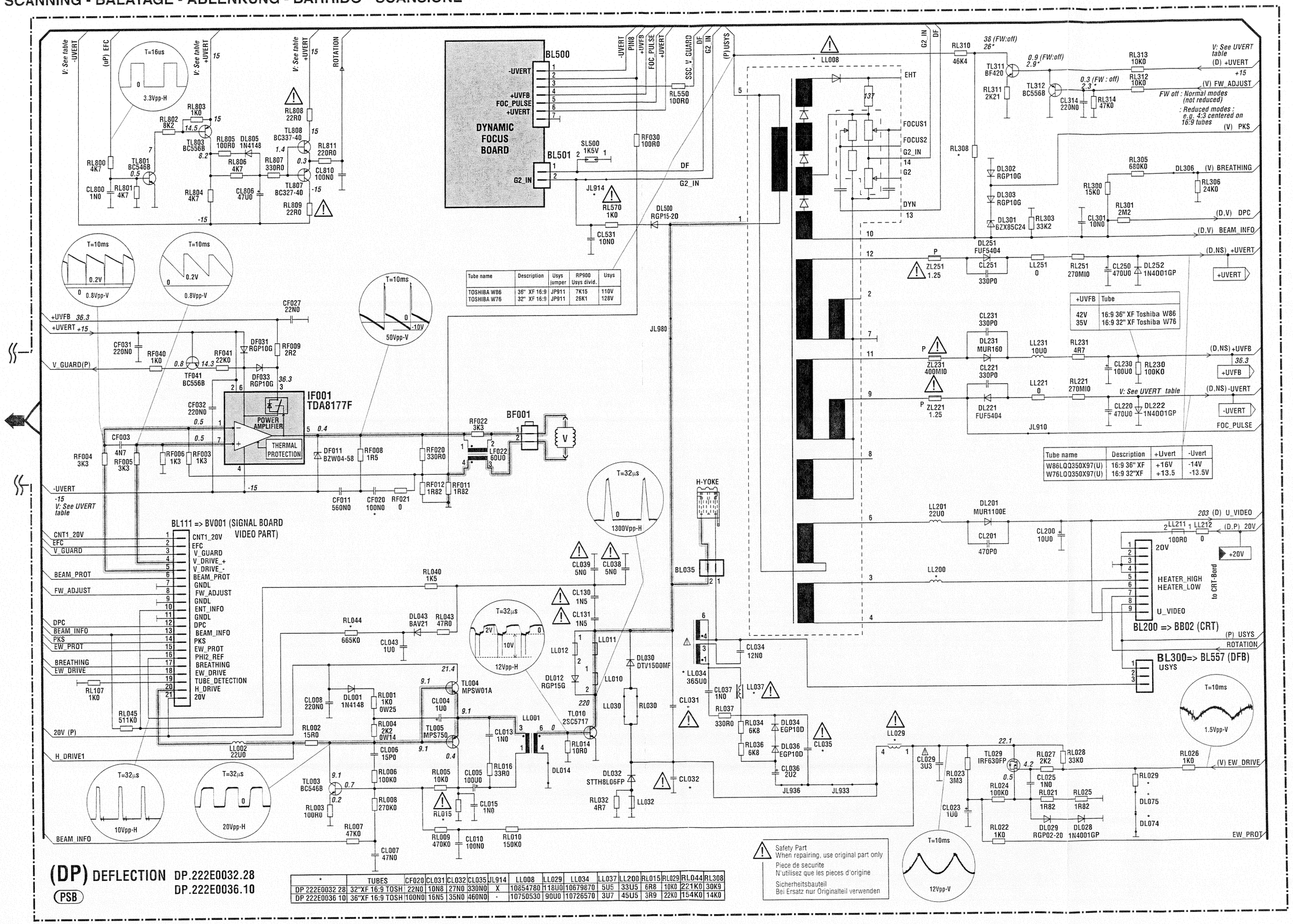
ES

11	Línea Data I2C bus_1 forzada a nivel bajo
12	Línea Clock I2C bus_1 forzada a nivel bajo
13/95	Línea Data I2C bus_2 forzada a nivel bajo
14/95	Línea Clock I2C bus_2 forzada a nivel bajo
15	Línea Data I2C bus_3 forzada a nivel bajo
16	Línea Clock I2C bus_3 forzada a nivel bajo
17	Línea Data I2C bus_4 forzada a nivel bajo
18	Línea Clock I2C bus_4 forzada a nivel bajo
19	Detectado chasis inválido
25	El sintonizador principal no responde
26	El sintonizador secundario (PIP) no responde
27	IX300 (TEA6415C) no responde
28	IV300 (TA1360) no responde
29	Faltan los 9V de IV300
31	IV400 (TDA9330H) no responde
32	Faltan los 8V de IV400
33	Deflexión: Circuito seguridad ha detectado un problema (4/IV400) - BV500 no conectado
34	PHI2_REF no disponible
35	Problema en el bit NRF, IV400 TDA9330 (HOP) oscilador no bloqueado
36	TRC no caliente en el tiempo establecido
37	Falta V_GUARD
38	XPR Bit. IV400 (TDA9 30H),seguridad de rayos X activada
39	Problema en PH1, IV400 TDA.9330 (HOP) oscilador no bloqueado a tiempo
41	IA001 (MSP) no responde
42	El bit del reset de IA001 (MSP) está activo
45	MSP averiado
46	La FI principal no responde
47	Faltan los 5V de FI
48	La FI del PIP no responde
49	Faltan los 5V de la FI PIP
51	IV100 (VSP9407) no responde
52	Faltan los 3V3 de Upconverter IV100
54	NVM IR005 (M24C64) no responde
55	IR006 (PCF8574) no responde
56	Problema en el bit FLS IV400 (TDA9330)
58	Código de validación fallido
59	IR001 montado, mal o incorrecto
61	Faltan los 5VON
62	Faltan los 5V y los 8V
63	Nivel inesperado en la línea NMI
64	Sobretensión en el ajuste XRP (rayos X)
65	La escritura a la NVM ha fallado
66	El contenido de la NVM está corrupto
68	Faltan los 5V conmutados
69	Faltan los sincronismos H/V para el OSD
72	IX400 (CXA2151) no responde
93	IR001, Err_I2C Bus_1 y Err_I2C Bus_2 (Bus drivers)
94	IR001, Err_I2C Bus_3 y Err_I2C Bus_4 (Bus drivers)
95	IR001, Err_I2C, Puerto del driver no se puede instalar
96	IR001, driver para ADC no se puede instalar
97	IR001, driver para AV-link no se puede instalar
98	SDRAM (IR110) problemas con el timing
99	IR001 alcanzado Watchdog

POWER / SCAN BOARD - PLATINE ALIMENTATION / BALAYAGE - NETZTEIL- UND ABLENKPLATINE - PIASTRA DEFLESSIONE / ALIMENTAZIONE - PLACA ALIMENTACIÓN / BARRIDOS
POWER SUPPLY PART - PARTIE ALIMENTATION - NETZTEIL - ALIMENTAZIONE - ALIMENTACIÓN



POWER / SCAN BOARD - PLATINE ALIMENTATION / BALAYAGE - NETZTEIL- UND ABLENKPLATINE - PIASTRA DEFLESSIONE / ALIMENTAZIONE - PLACA ALIMENTACIÓN / BARRIDOS
SCANNING - BALAYAGE - ABLENKUNG - BARRIDO - SCANSIONE

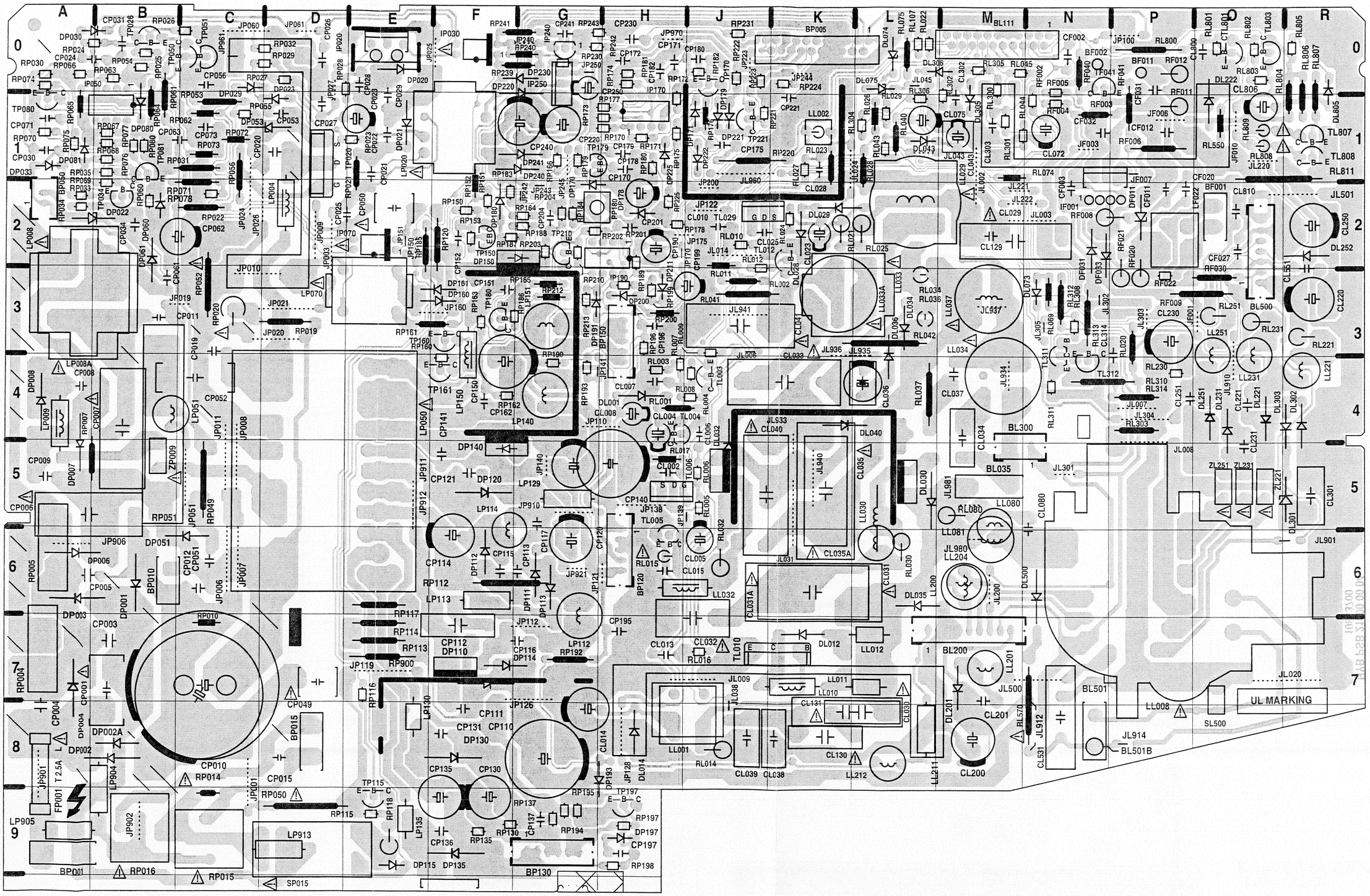


(DP) DEFLECTION DP.222E0032.28
DP.222E0036.10
PSB

*	TUBES	CF020	CL031	CL032	CL035	JL914	LL008	LL029	LL034	LL037	LL200	RL015	RL029	RL044	RL308
DP 222E0032 28	32"XF 16:9 TOSH	22N0	10N8	27N0	330N0	X	10654780	118U0	10679070	5U5	33U5	6R8	10K0	221K0	30K9
DP 222E0036 10	36"XF 16:9 TOSH	100N0	16N5	35N0	460N0	-	10750530	90U0	10726570	3U7	45U5	3R9	22K0	154K0	14K0

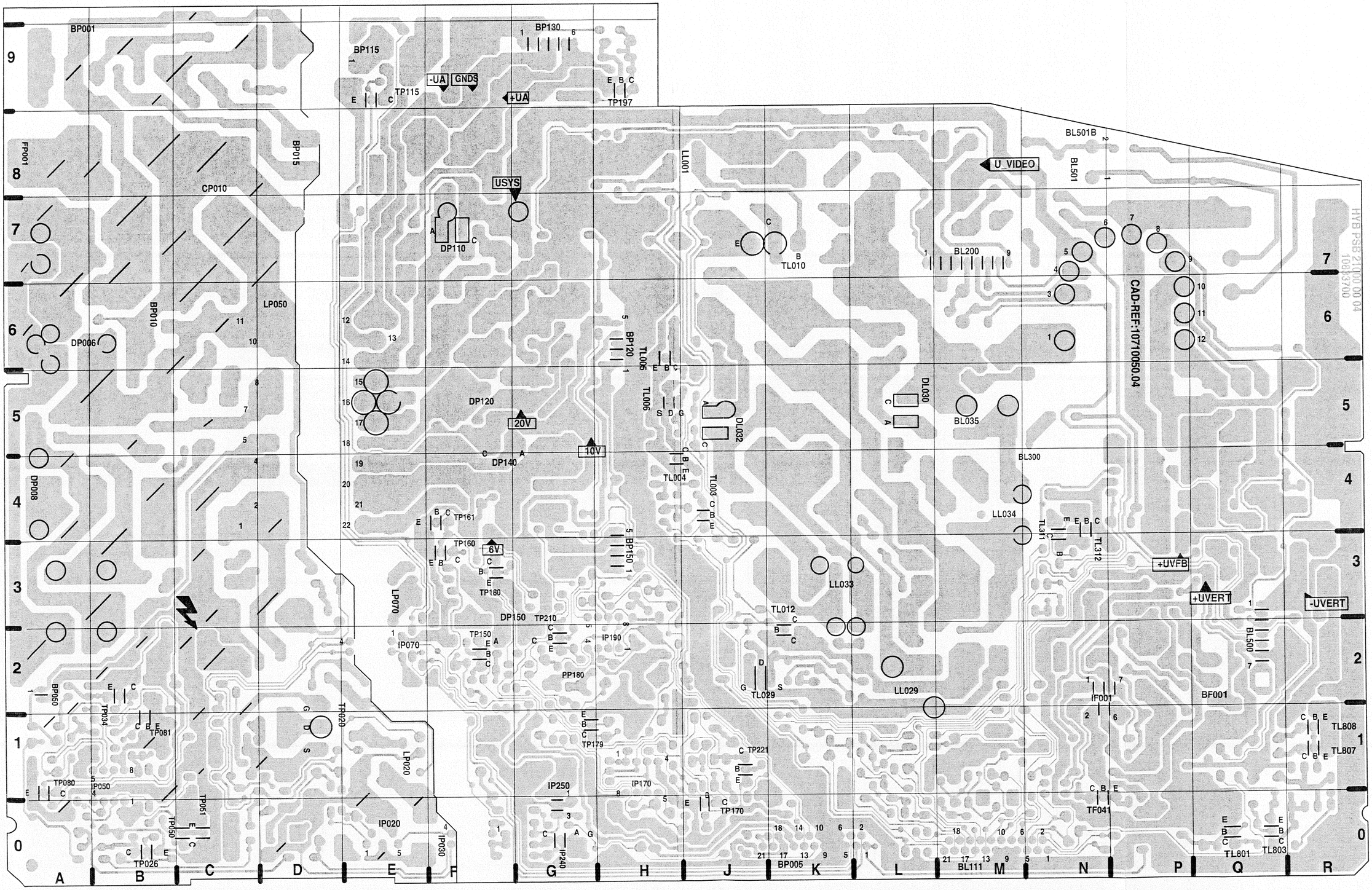
POWER / SCAN BOARD - PLATINE ALIMENTATION / BALAYAGE - NETZTEIL- UND ABLENKPLATINE - PIASTRA DEFLESSIONE / ALIMENTAZIONE - PLACA ALIMENTACIÓN / BARRIDOS

COMPONENT SIDE - COTE COMPOSANTS - BESTÜCKUNGSSEITE - LATO COMPONENTI - LADO COMPONENTES



POWER / SCAN BOARD - PLATINE ALIMENTATION / BALAYAGE - NETZTEIL- UND ABLENKPLATINE - PIASTRA DEFLESSIONE / ALIMENTAZIONE - PLACA ALIMENTACIÓN / BARRIDOS

SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDADURAS



COMPONENTS LOCATION - LOCALISATION DES ELEMENTS - LAGE DER BAUTEILE - LOCALIZZAZIONE DEGLI ELEMENTI - LOCALIZACION DE LOS COMPONENTES

POWER / SCAN BOARD - PLATINE ALIMENTATION / BALAYAGE - NETZTEIL- UND ABLENKPLATINE - PIASTRA DEFLESSIONE / ALIMENTAZIONE - PLACA ALIMENTACIÓN / BARRIDOS

1	2	3

BB001	KV
BB002	M9
BB003	PZ
BB004	N9
BB007	P9
BB009	N9
BB010	NV
BF001	Q2
BF002	N0
BF011	P0
BG003	R9
BJ004	FZ
BJ010	GV
BJ011	FV
BJ015	FV
BK101	DZ
BK102	CZ
BK103	EZ
BL035	M5
BL111	M0
BL200	M7
BL300	M5
BL500	Q2
BL501	N8
BP001	A9
BP005	K0
BP010	B6
BP015	D8
BP050	A2
BP120	H6
BP130	G9
BP150	H3
BQ009	JZ
BQ012	JV

CB001	QZ
CB003	M9
CB004	KV
CB005	LV
CB006	K9
CB079	M9
CF002	N0
CF003	N2
CF011	P2
CF012	P1
CF020	P1
CF027	Q2
CF031	P0
CF032	N1
CG001	Q8
CG002	RV
CG003	MZ
CG004	RZ
CG005	QV
CG006	QZ
CG007	QV
CG009	Q9
CG010	RZ
CG012	R8
CG031	MV
CG048	Q9
CG052	LZ
CG053	KZ
CG054	LZ
CJ003	GZ
CJ004	GZ
CK101	BV
CK102	BZ
CK103	DV
CL002	J5
CL004	H4
CL005	J6
CL006	J4
CL007	H4
CL008	H4
CL010	J2
CL013	H7
CL014	G8
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CL030	K8
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CL034	M4
CL035	K5
CL035A	K5
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CL036A	L4

CL037	M4
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CL039	J8
CL040	J5
CL041	J3
CL043	M1
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CP005	A6
CP006	A5
CP007	B4
CP008	A4
CP009	A5
CP010	C7
CP010A	C7
CP011	B3
CP012	C6
CP015	D8
CP019	C3
CP020	D1
CP021	E1
CP022	E1
CP023	E1
CP024	B0
CP025	E2
CP026	D0
CP027	D1
CP028	E0
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CP030	A1
CP031	B0
CP034	B2
CP049	D7
CP050	E2
CP051	C6
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CP063	B1
CP071	A1
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CP112	F7
CP113	G6
CP114	F6
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CP117	G5
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CP131	F8
CP135	F9
CP136	F9
CP137	G9
CP140	H5
CP140A	G5
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CP172	H0
CP175	J1
CP178	H1
CP179	H1
CP180	H0
CP182	H0
CP190	H2
CP195	H7
CP196	H3

CP197	H9
CP199	J3
CP201	H2
CP204	G2
CP220	G1
CP221	J1
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CP241	G0
CP250	G0
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CQ004	HZ

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DB050	LV
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DB070	L9
DB071	MV
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DF031	N3
DF033	N2
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DG002	R9
DG003	QV
DG004	QV
DG026	P9
DL001	G4
DL012	L7
DL014	H8
DL028	K2
DL029	L2
DL030	L5
DL030A	L4
DL030X	K5
DL032	J5
DL032A	J5
DL034	L3
DL035	M6
DL036	L4
DL040	K4
DL043	L1
DL073	N3
DL074	L0
DL075	K0
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DL221A	Q4
DL222	Q1
DL231	Q5
DL251	Q4
DL251A	Q5
DL252	R2
DL301	R6
DL302	R5
DL303	R4
DL305	M1
DL306	L0
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DL805	R0
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DP003	B6
DP003A	B6
DP004	A8
DP004A	A8
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DP007	A4
DP008	A5
DP020	E0
DP021	E0
DP022	A2
DP023	D1
DP029	C0
DP030	B0
DP033	A1
DP051	C6
DP053	D1
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DP061	B3
DP080	B1
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DP111	G7
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DP114	F7
DP115	E9
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DP130A	E8

DP135	G9
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DP140	F5
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DP193	H8
DP197	H9
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DP220	F1
DP221	J1
DP222	J1
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FIXA01	N4
FIXA02	D7
FP001	A8

GE101	AV
GK101	BV

IB001	KV
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IP020	E0
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IP070	E2
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IP240	G0
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JE101	BZ
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JE103	AZ
JF001	Q3
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JJ001	FV
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JL935	L3

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JP906	A6
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JP912	E5
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JP970	H0

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LF022	P2
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LL012	L7
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LP151	G3
LP904	B9
LP905	A9
LP913	D9

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RP240	G0
RP241	G0
RP242	G0
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RQ005	HZ
RQ006	JZ

SK101	EV
SK102	DV
SK103	DV
SK104	CV
SL500	Q7
SP015	D9

TB001	K9
TF041	N0
TG001	QZ
TG002	QZ

TG003	QV
TG006	RV
TG007	R9
TG011	MZ
TG060	RV
TG070	R9
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TL004	H4
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TL006	H5
TL010	K7
TL012	K2
TL028A	J1
TL029	J2
TL030A	K8
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TL803	Q0
TL807	R1
TL808	R1
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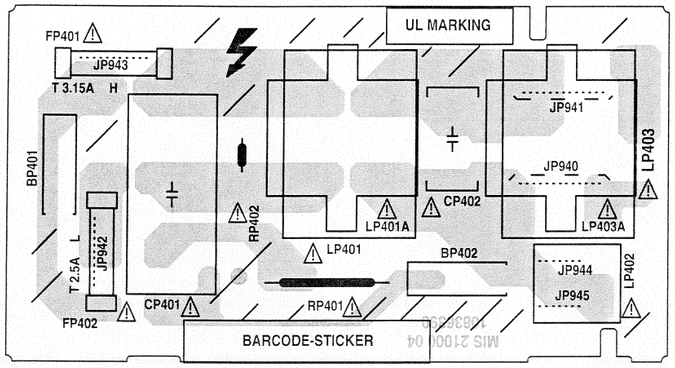
TP180	F3
TP197	H9
TP210	G2
TP221	J1

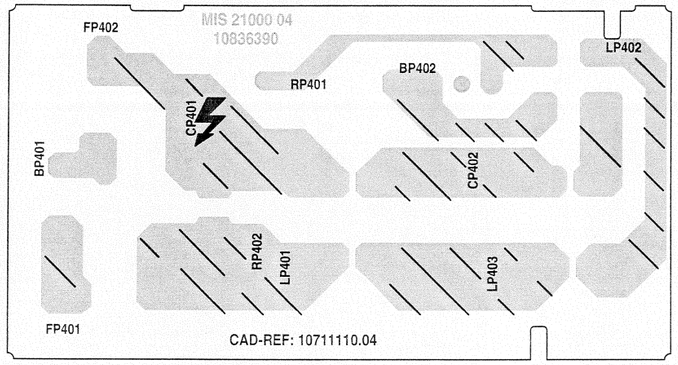
ZL221	Q5
ZL231	Q5
ZL251	Q5
ZP009	B5

MAINS FILTER - FILTRE SECTEUR
MIS222E0000

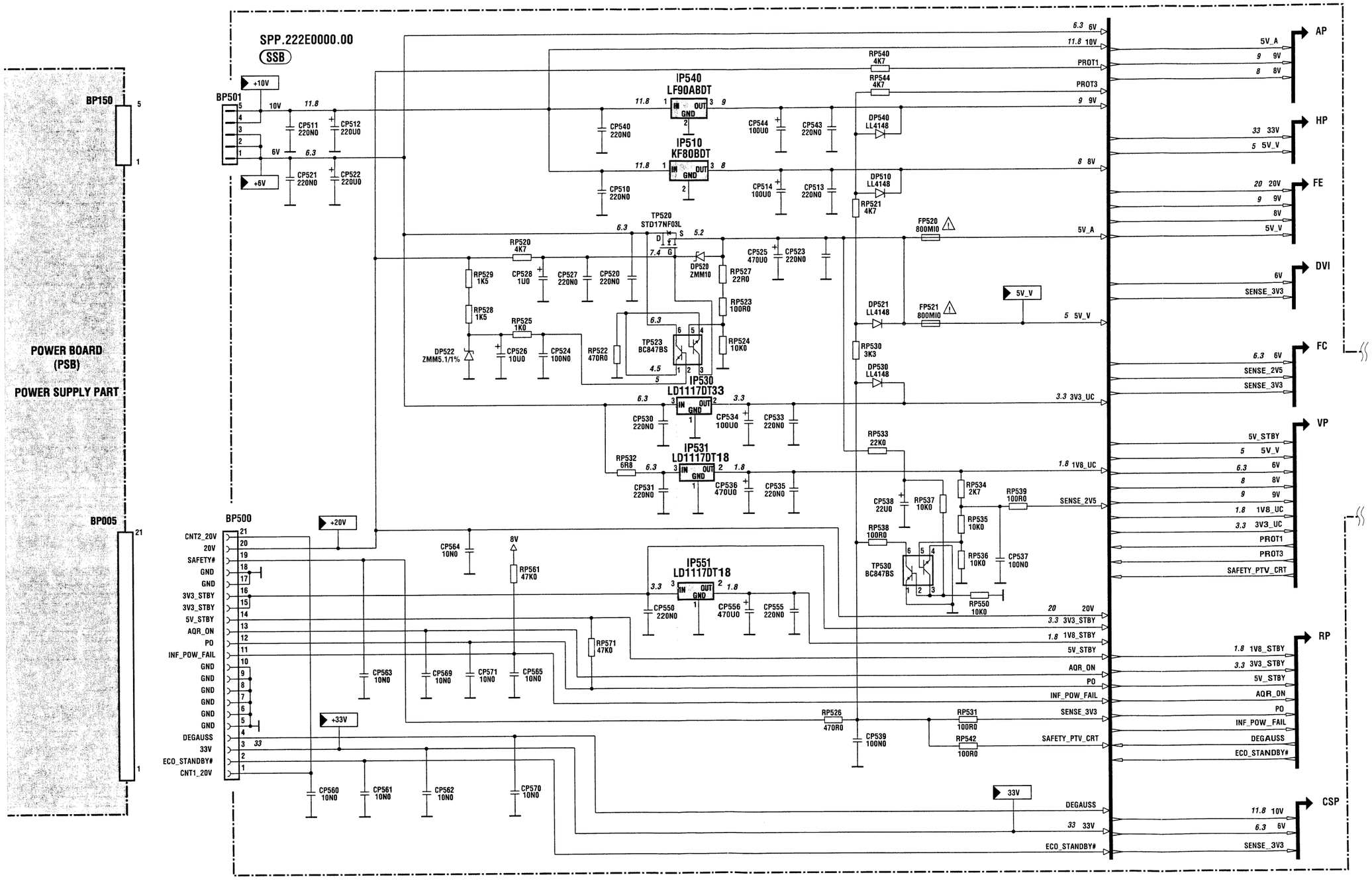
COMPONENT SIDE - COTE COMPOSANTS - BESTÜCKUNGSSEITE - LATO COMPONENTI - LADO COMPONENTES

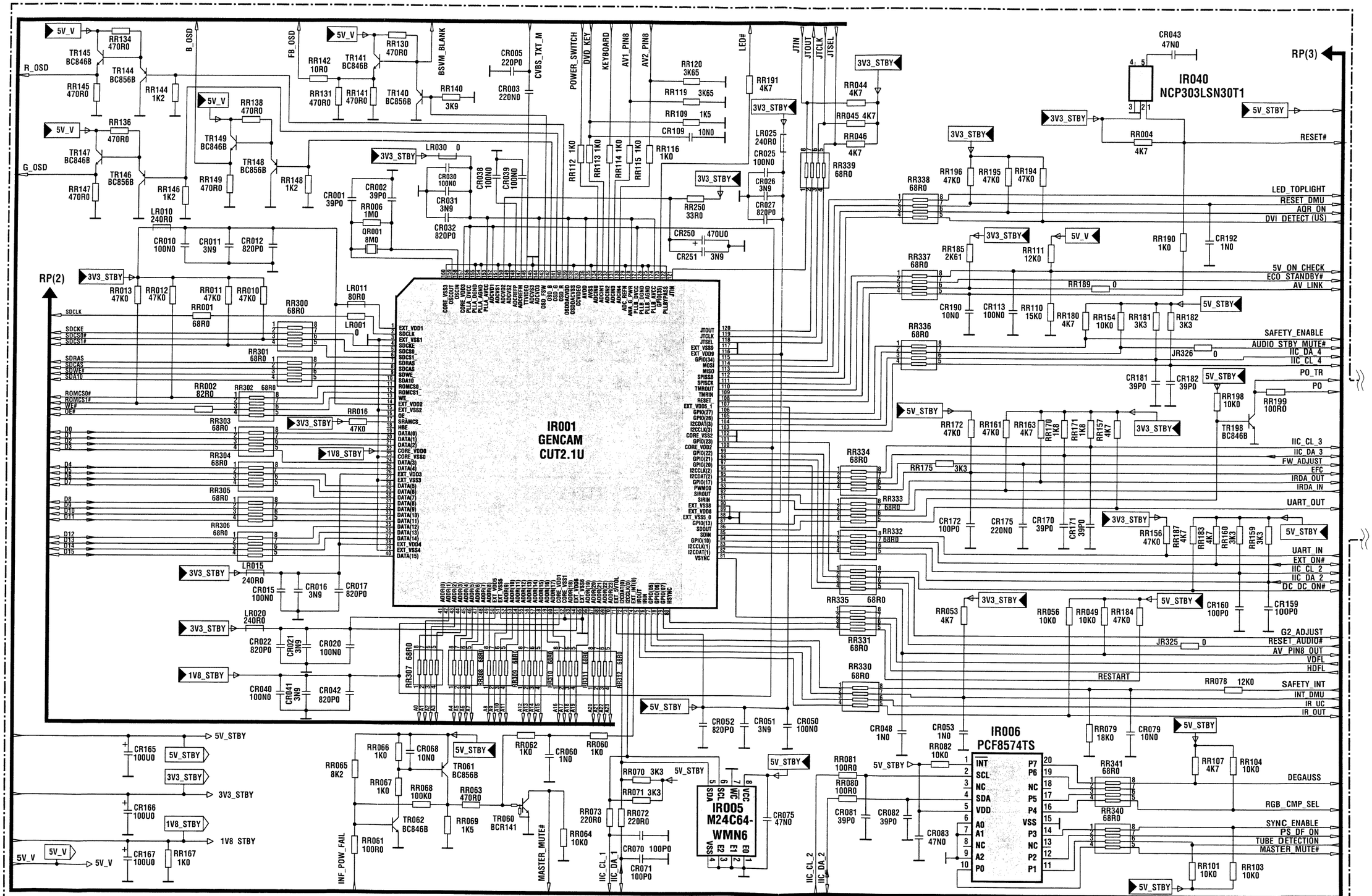


SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDADURAS



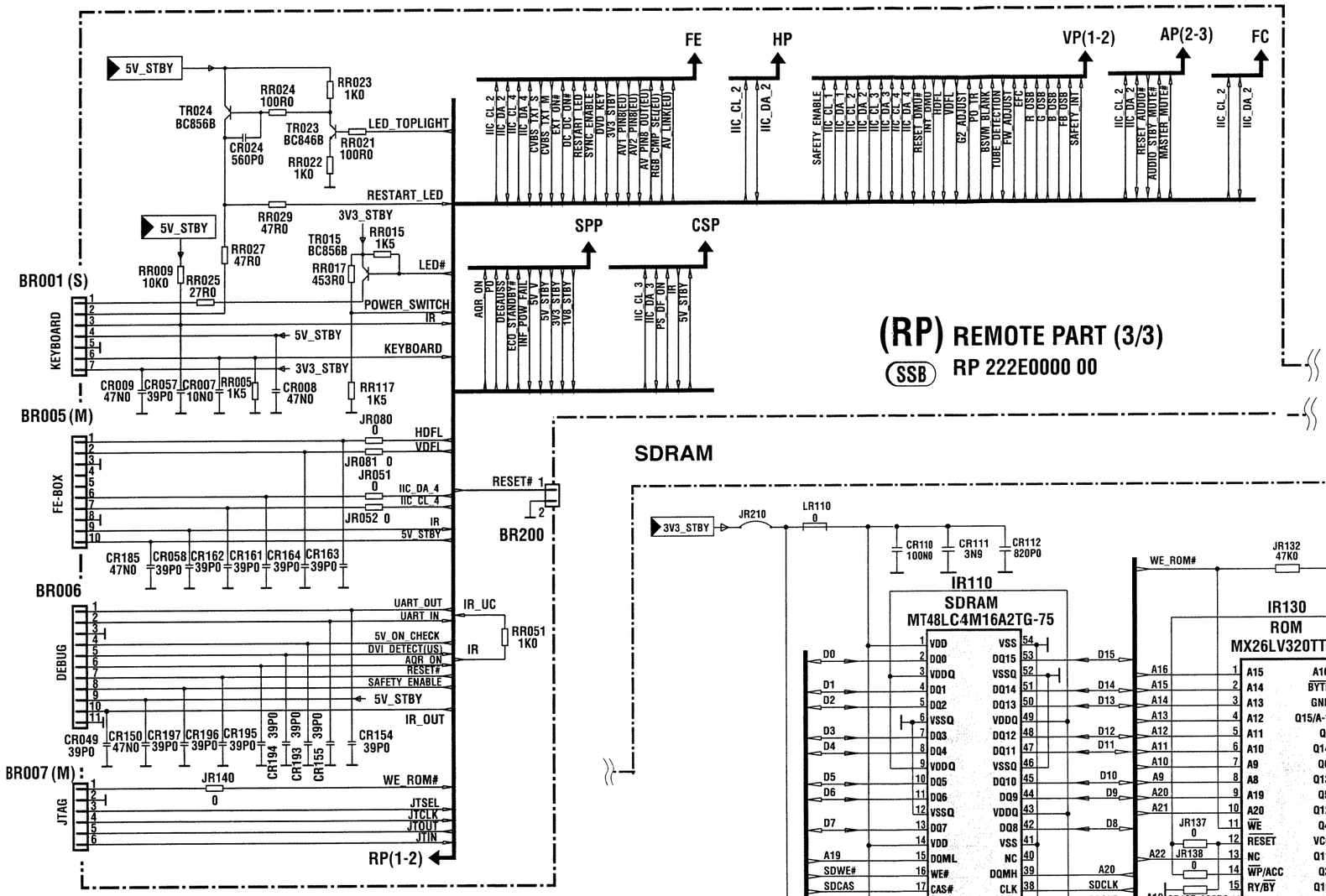
SMALL SIGNAL BOARD - PLATINE PETITS SIGNAUX - SIGNAL-PLATINE - PIASTRA PICCOLI SEGNALI - PLACA PEQUEÑA SEÑAL
SIGNAL BOARD POWER PART - PARTIE ALIMENTATION DE LA PLATINE PETITES SIGNAUX - BETRIEBSSPANNUNGSERZEUGUNG SIGNAL PLATINE - PARTE ALIMENTAZIOEN PIASTRA SEGNALI - PARTE ALIMENTACIÓN PLACA SEÑAL





(RP) REMOTE PART (1/3)

SSB RP 222E0000 00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HP
VP(1-2)
AP(2-3)
FC
SPP
CSP
5V_STBY
3V3_STBY
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RR023 1K0
TR024 BC856B
TR023 BC846B
CR024 560P0
RR021 100R0
RR022 1K0
LED_TOPLIGHT
RESTART_LED
RR029 47R0
TR015 BC856B
RR015 1K5
RR027 47R0
RR017 453R0
LED#
RR009 10K0
RR025 27R0
POWER_SWITCH
IR
KEYBOARD
BR001 (S)
CR009 47N0
CR057 39P0
CR007 10N0
RR005 1K5
CR008 47N0
RR117 1K5
BR005 (M)
JR080 0
HDFL
VDFL
JR081 0
JR051 0
IIC_DA_4
IIC_CL_4
JR052 0
RESET# 1
BR200
FE-BOX
CR185 47N0
CR058 39P0
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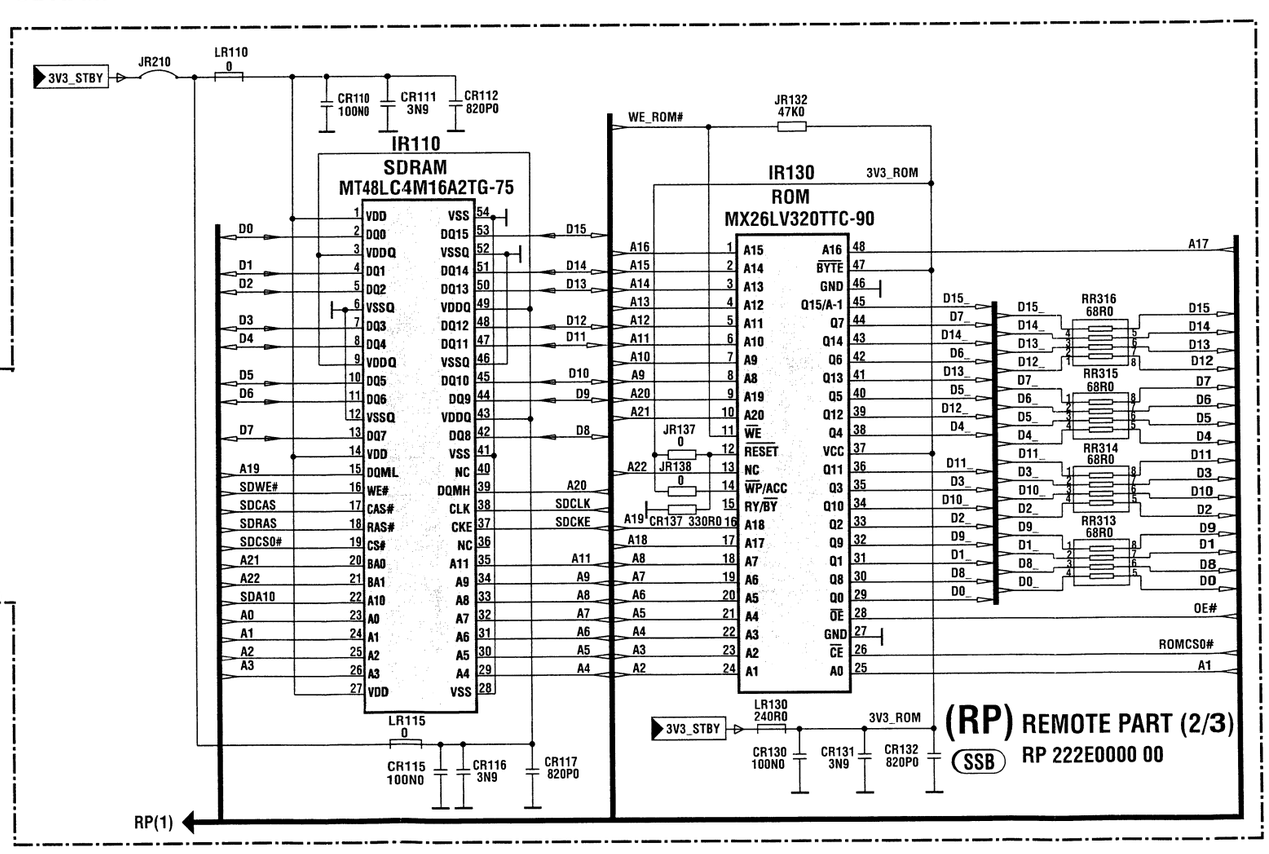
CR161 39P0
CR164 39P0
CR163 39P0
BR006
UART_OUT
UART_IN
IR_UC
5V_ON_CHECK
DVI_DETECT(US)
AQR_ON
RESET#
SAFETY_ENABLE
IR_OUT
RR051 1K0
DEBUG
CR049 39P0
CR150 47N0
CR197 39P0
CR196 39P0
CR195 39P0
CR194 39P0
CR193 39P0
CR155 39P0
CR154 39P0
BR007 (M)
JR140 0
WE_ROM#
JTAG
JTSEL
JTCLK
JTOUT
JTIN
RP(1-2)
IIC_CL_2
IIC_DA_2
SAFETY_ENABLE
RESET_DMUT#
INT_DMUT
HDFL
VDFL
G2_ADJUST
PO_TR
BSVM_BLANK
TOBE_DETECTION
FW_ADJUST
EFC
R_OSB
G_OSB
B_OSB
FB_OSB
SAFETY_INT
RESET_AUDIO#
AUDIO_STBY_MUTE#
MASTER_MUTE#
AQR_ON
PFC
DEGAUSS
ECO_STANDBY
INF_POW_FAIL
5V_STBY
3V3_STBY
1V8_STBY
IIC_CL_3
IIC_DA_3
PS_DF_ON
IR
(RP) REMOTE PART (3/3)
SSB
RP 222E0000 00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JR210
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CR111 3N9
CR112 820P0
IR110
SDRAM
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D0
D1
D2
D3
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D5
D6
D7
A19
SDWE#
SDCAS
SDRAS
SDCS0#
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A22
SDA10
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A2
A3
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SDCKE
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A9
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A6
A5
A4
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CR116 3N9
CR117 820P0
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IR130
ROM
MX26LV320TTC-90
3V3_ROM
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JR138 0
CR137 330R0
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RR315 68R0
RR314 68R0
RR313 68R0
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ROMCS0#
A17
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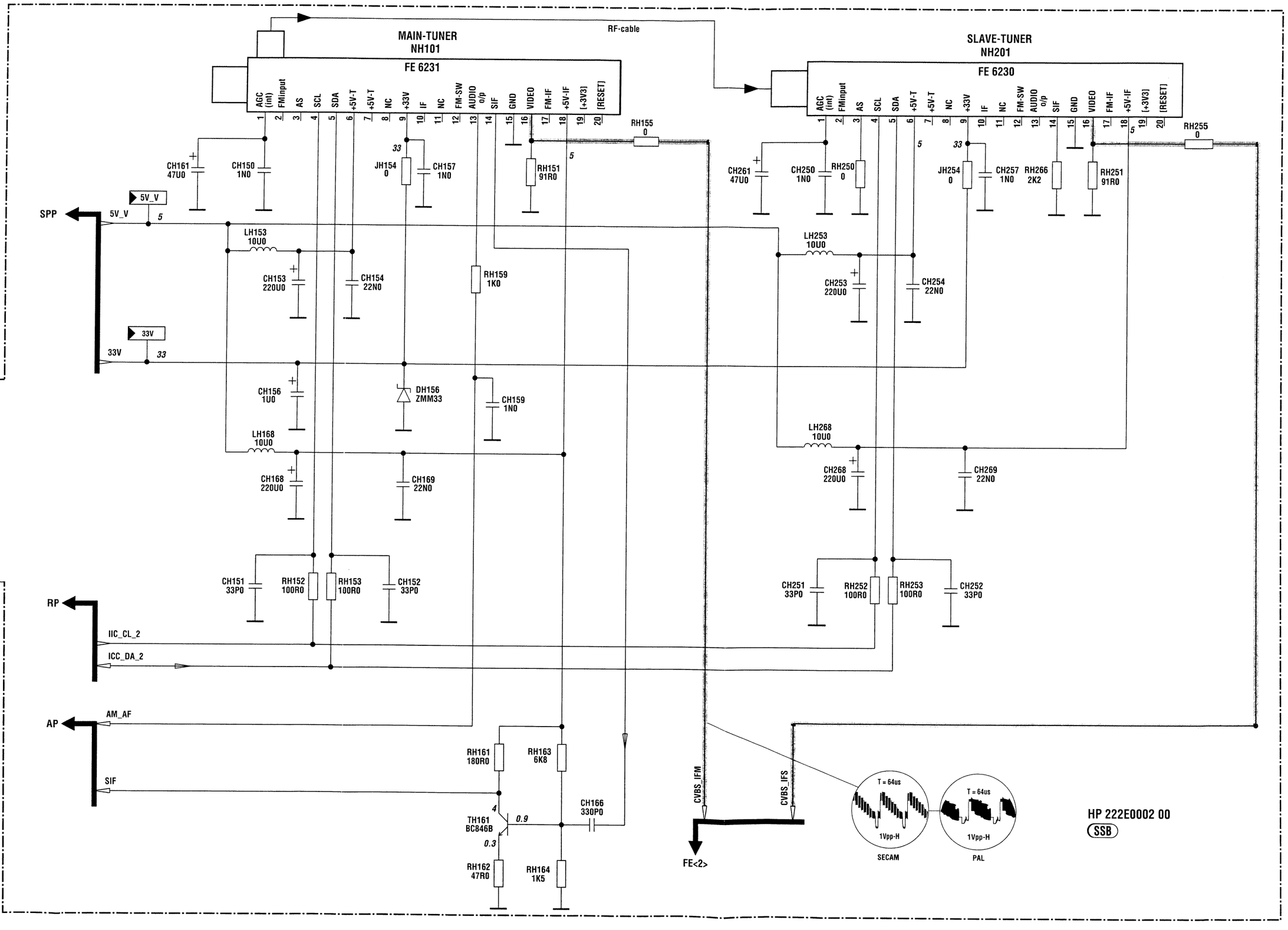
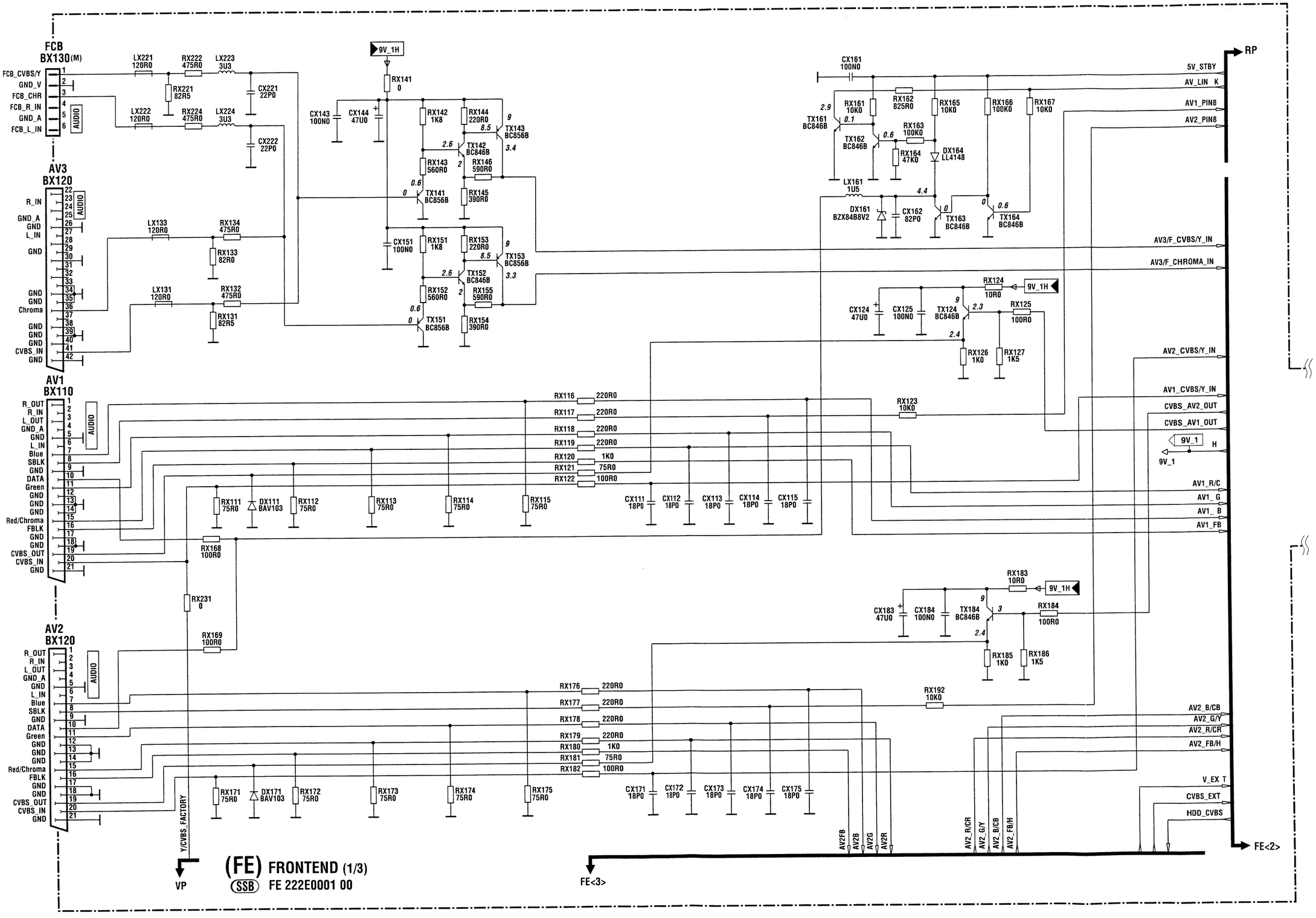
CR130 100N0
CR131 3N9
CR132 820P0
RP(1)
(RP) REMOTE PART (2/3)
SSB
RP 222E0000 00

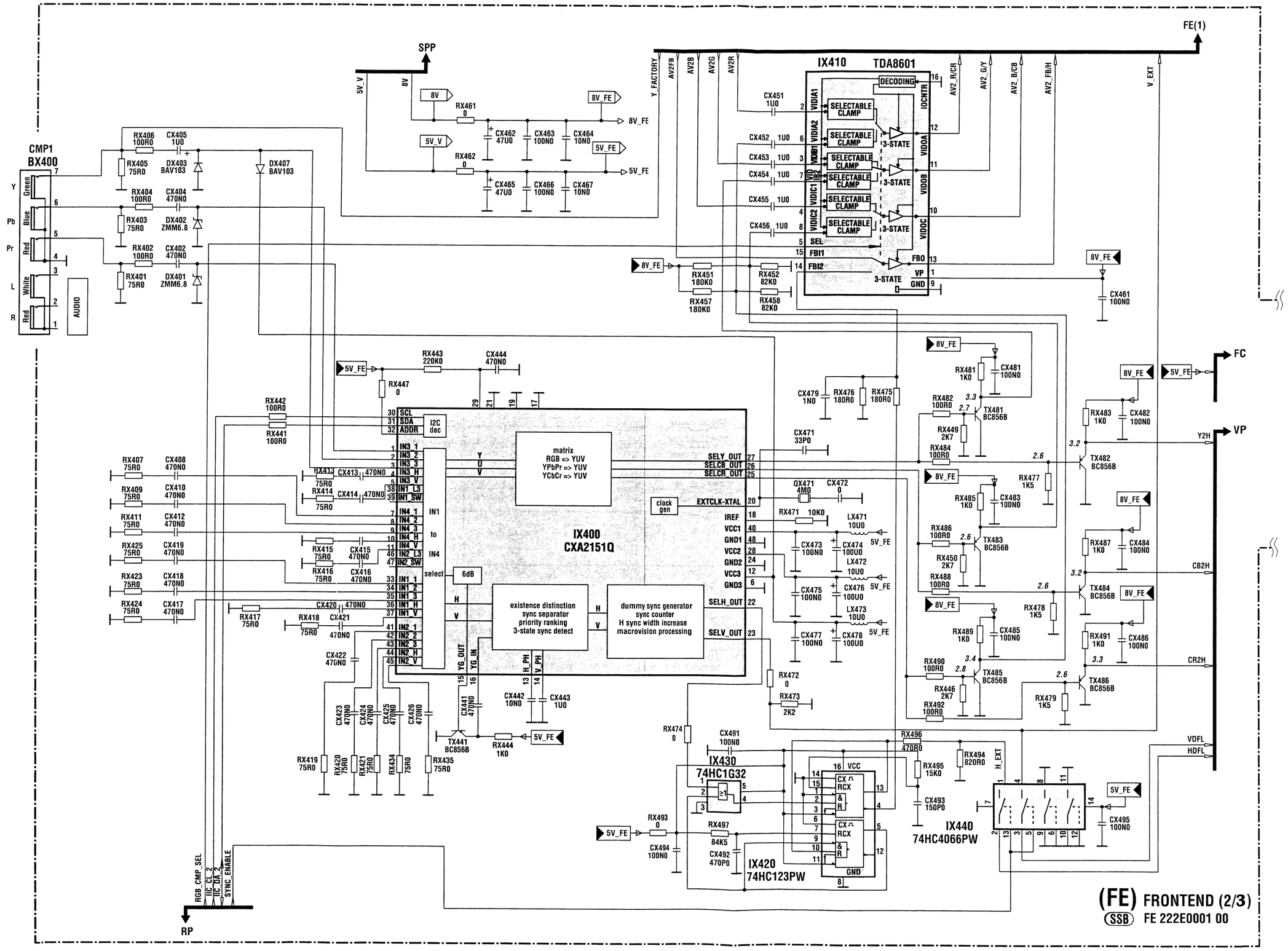
SMALL SIGNAL BOARD - PLATINE PETITS SIGNAUX - SIGNAL-PLATINE - PIASTRA PICCOLI SEGNALI - PLACA PEQUEÑA SEÑAL
HF PART TUNER



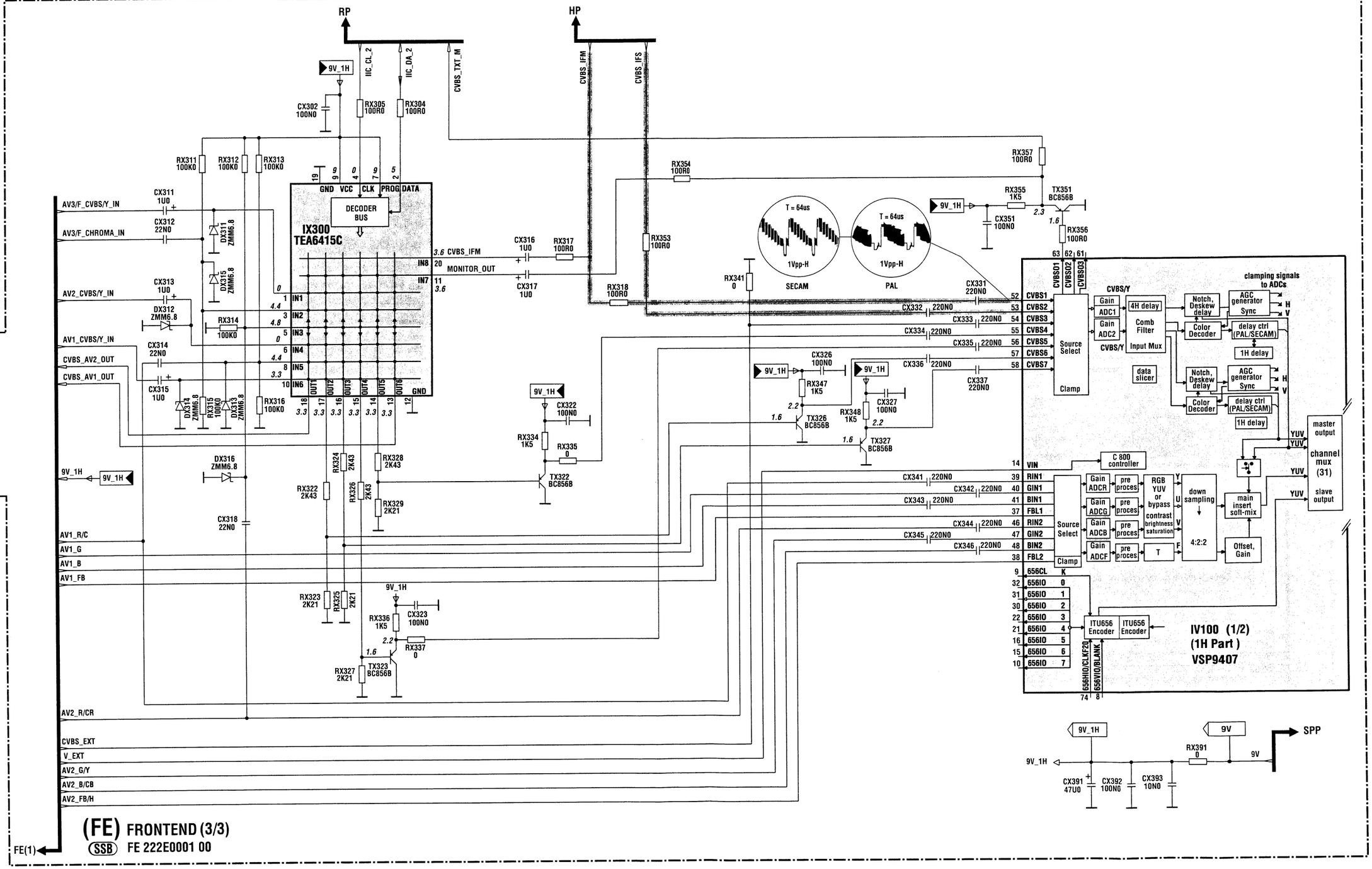
SMALL SIGNAL BOARD - PLATINE PETITS SIGNAUX - SIGNAL-PLATINE - PIASTRA PICCOLI SEGNALI - PLACA PEQUEÑA SEÑAL
FRONTEND PART (1/3) - PARTIE SIGNAUX D'ENTREE (1/3) - EINGANGSSTUFEN (1/3) - PRESE FRONTALI (1/3) - FRONT END PART (1/3)



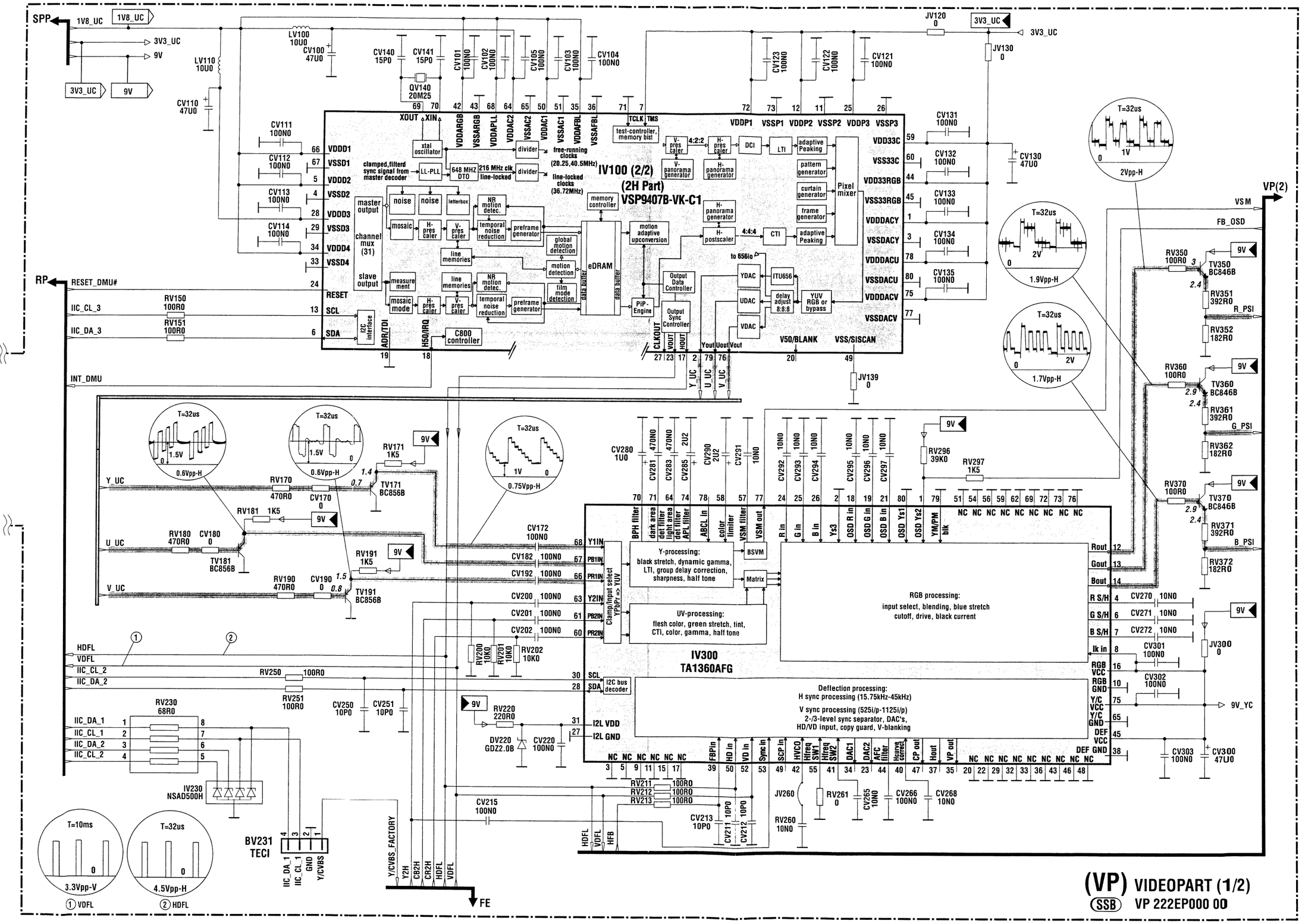
SMALL SIGNAL BOARD - PLATINE PETITS SIGNAUX - SIGNAL-PLATINE - PIASTRA PICCOLI SEGNALI - PLACA PEQUEÑA SEÑAL
FRONTEND PART (2/3) - PARTIE SIGNAUX D'ENTREE (2/3) - EINGANGSSTUFEN (2/3) - PRESE FRONTALI (2/3) - FRONT END PART (2/3)



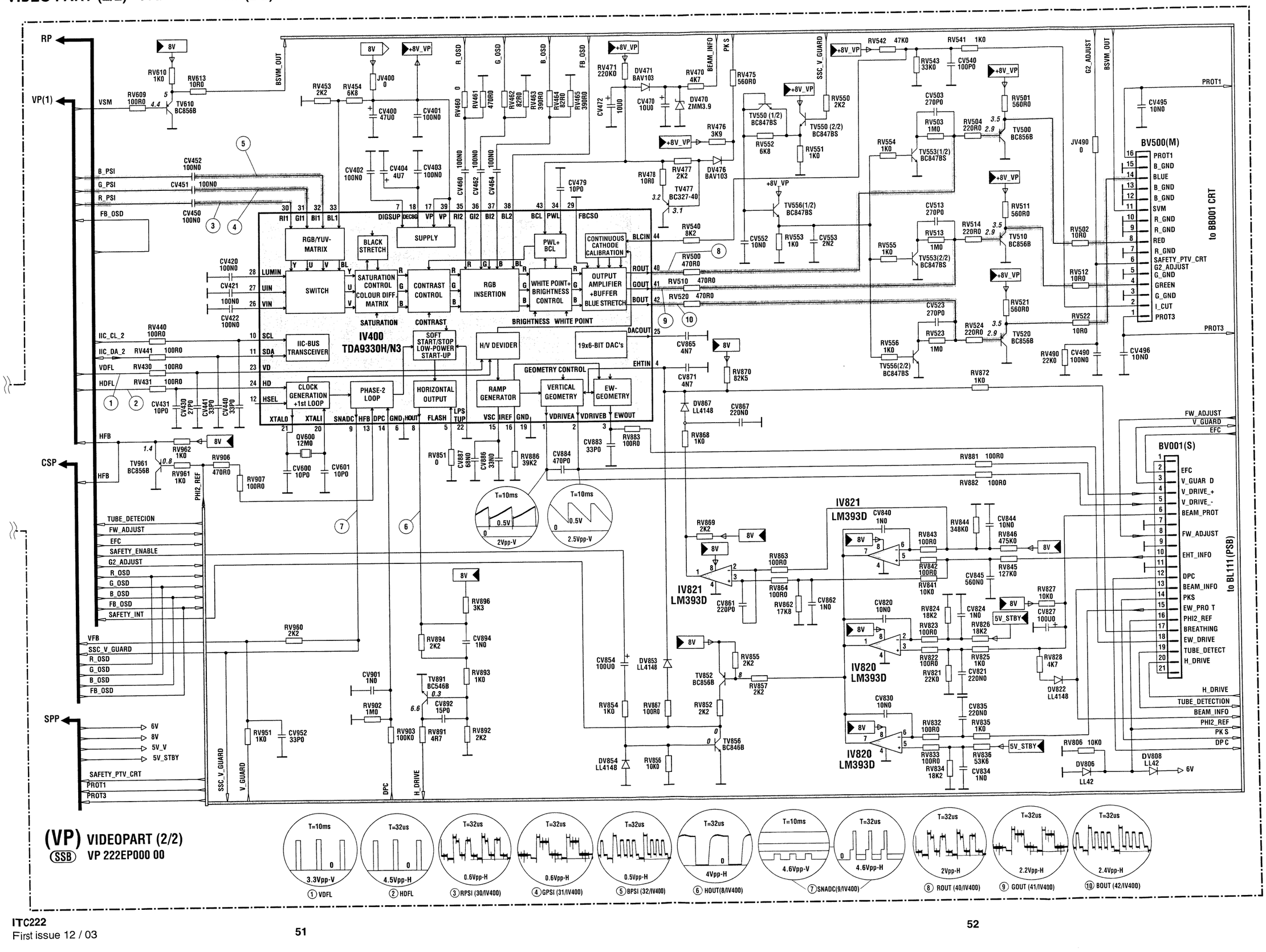
SMALL SIGNAL BOARD - PLATINE PETITS SIGNAUX - SIGNAL-PLATINE - PIASTRA PICCOLI SEGNALI - PLACA PEQUEÑA SEÑAL
FRONTEND PART (3/3) - PARTIE SIGNAUX D'ENTREE (3/3) - EINGANGSSTUFEN (3/3) - PRESE FRONTALI (3/3) - FRONT END PART (3/3)



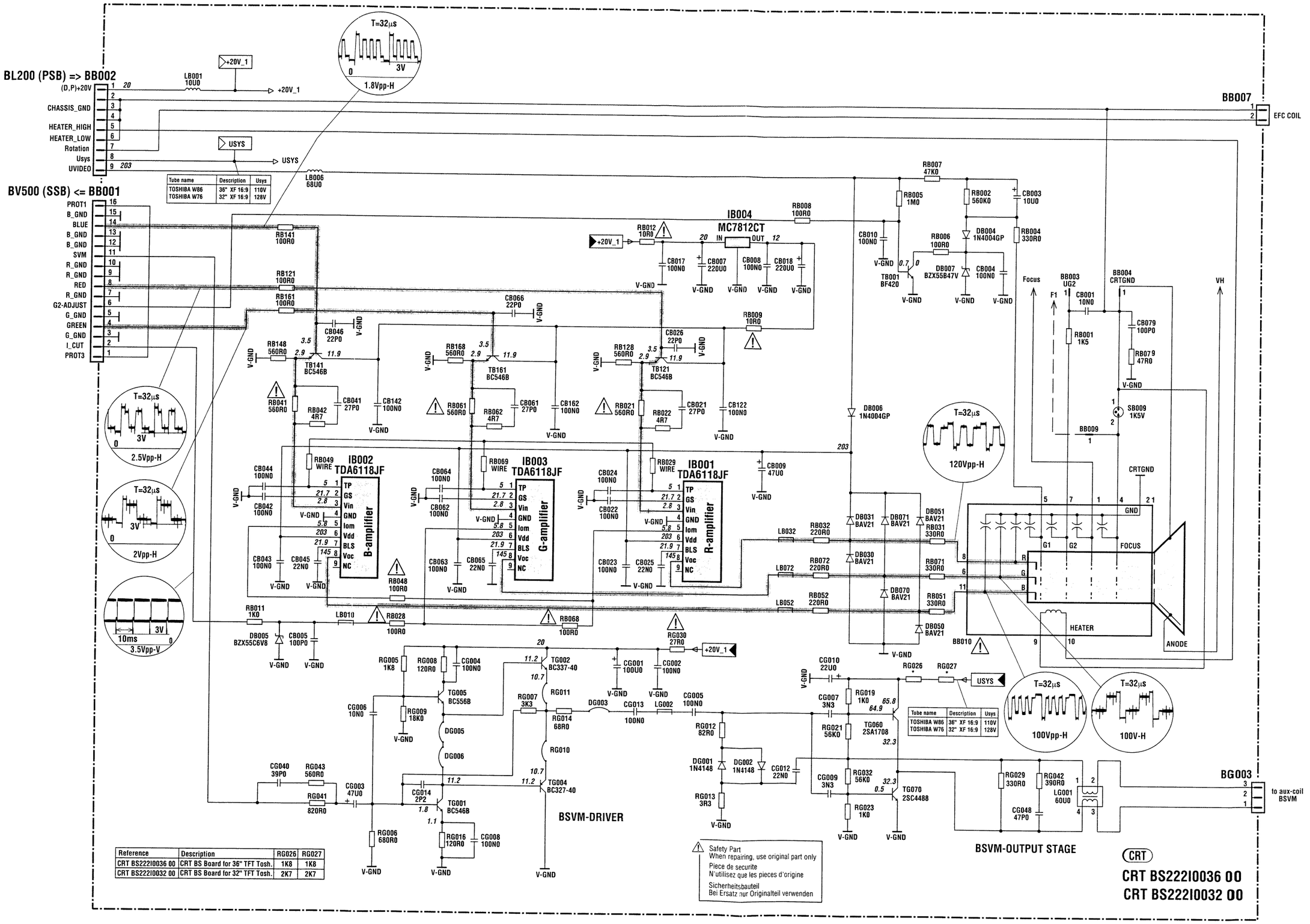
SMALL SIGNAL BOARD - PLATINE PETITS SIGNAUX - SIGNAL-PLATINE - PIASTRA PICCOLI SEGNALI - PLACA PEQUEÑA SEÑAL
VIDEO PART (1/2) - PARTIE VIDEO (1/2) - VIDEO-SIGNALVERARBEITUNG (1/2) - ELABORAZIONE VIDEO (1/2) - TRATAMENTO VIDEO (1/2)



SMALL SIGNAL BOARD - PLATINE PETITS SIGNAUX - SIGNAL-PLATINE - PIASTRA PICCOLI SEGNALI - PLACA PEQUEÑA SEÑAL
VIDEO PART (2/2) - PARTIE VIDEO (2/2) - VIDEO-SIGNALVERARBEITUNG (2/2) - ELABORAZIONE VIDEO (2/2) - TRATAMENTO VIDEO (2/2)

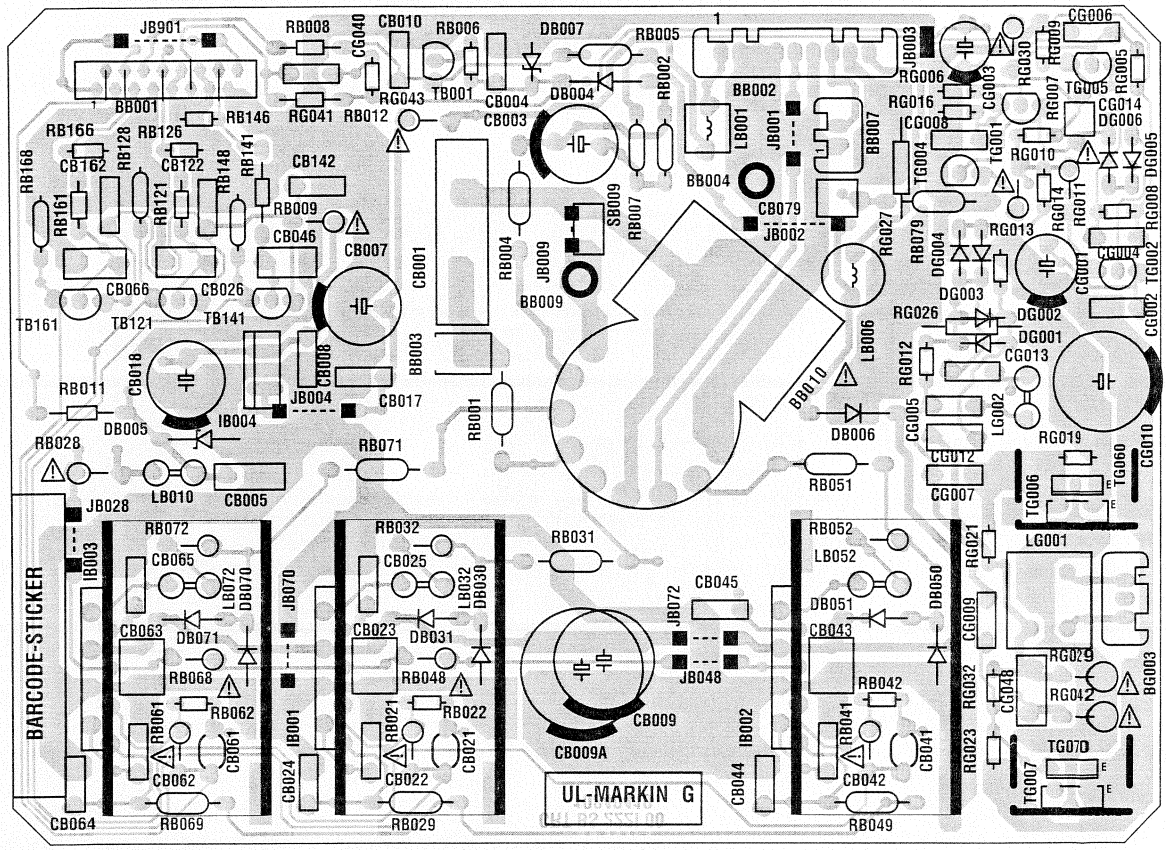


VIDEO AMPLIFIER BOARD - PLATINE AMPLIFICATEURS VIDEO - VIDEOVERSTÄRKERPLATTE - PIASTRA AMPLIFICATORE VIDEO - PLATINA AMPLIFICADOR VIDEO

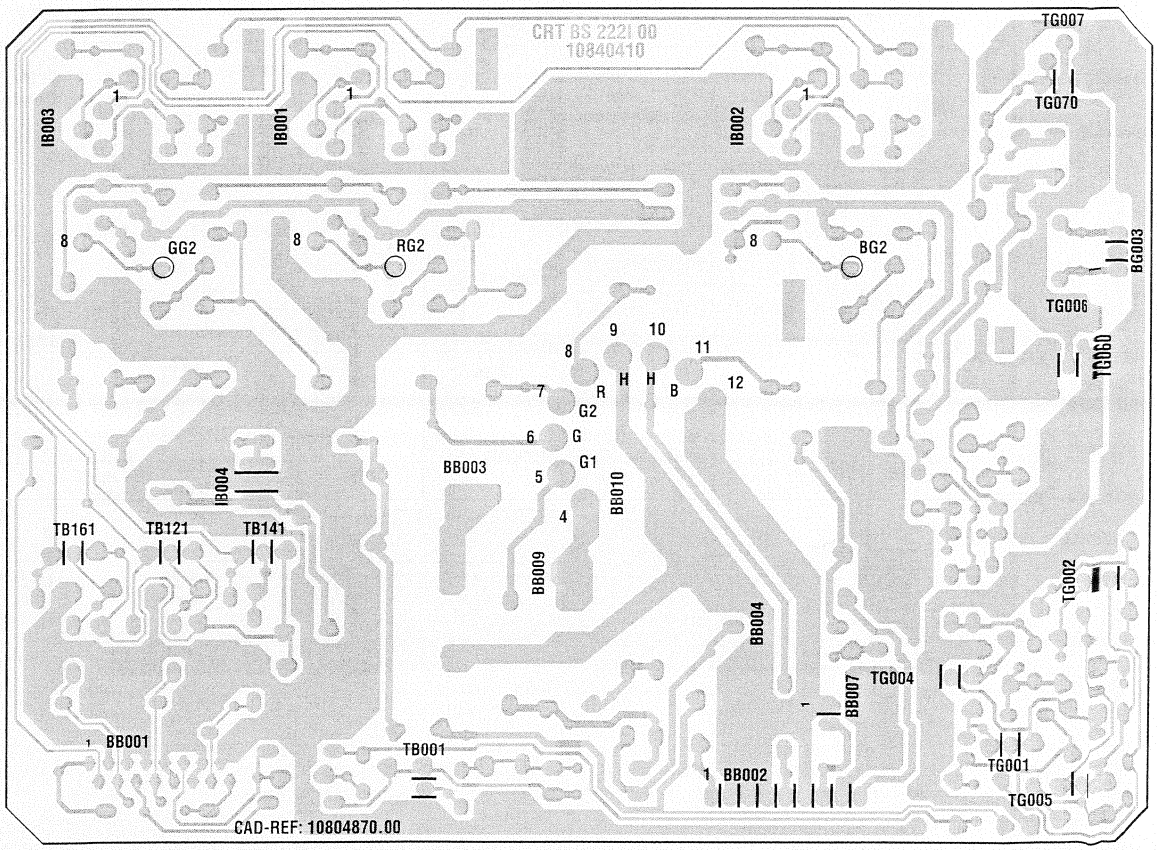


VIDEO AMPLIFIER BOARD - PLATINE AMPLIFICATEURS VIDEO - VIDEOVERSTÄRKERPLATTE - PIASTRA AMPLIFICATORE VIDEO - PLATINA AMPLIFICADOR VIDEO

COMPONENT SIDE - COTE COMPOSANTS - BESTÜCKUNGSSEITE - LATO COMPONENTI - LADO COMPONENTES



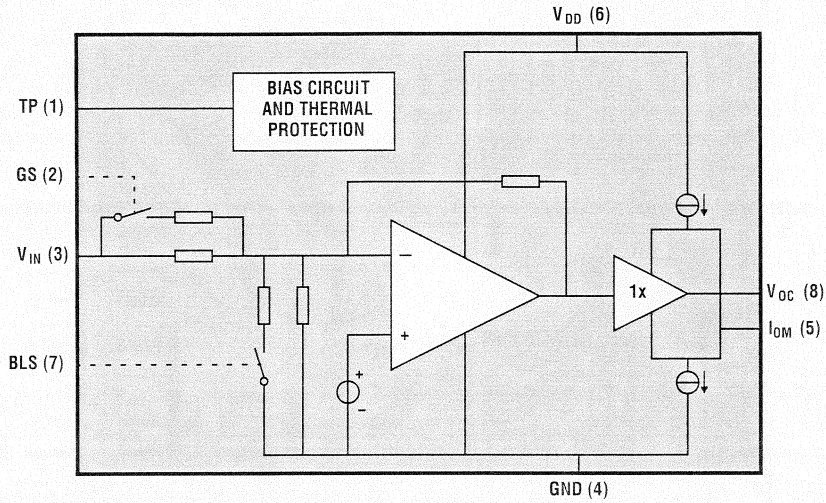
SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDADURAS



INTEGRATED CIRCUITS BLOCK DIAGRAMS - SYNOPTIQUES INTERNES DES CIRCUITS INTEGRES - INTEGRIERTE SCHALTUNGEN BLOCKSCHALTBILDER - SCHEMA A BLOCCHI DEL CIRCUITI INTEGRATI - VISTA INTERNA DE LOS CIRCUITOS INTEGRADOS

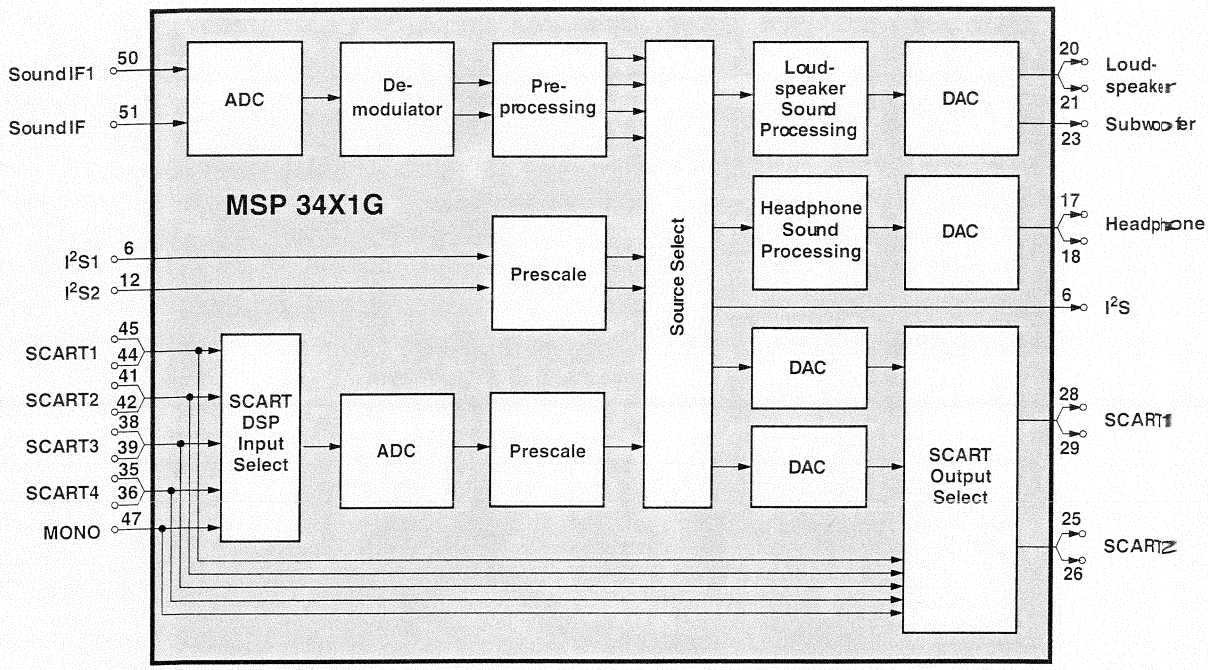
VIDEO AMPLIFIER BOARD - PLATINE AMPLIFICATEURS VIDEO - VIDEOVERSTÄRKERPLATTE - PIASTRA AMPLIFICATORE VIDEO - PLATINA AMPLIFICADOR VIDEO

IB001 - IB002 - IB003 - TDA6118JF

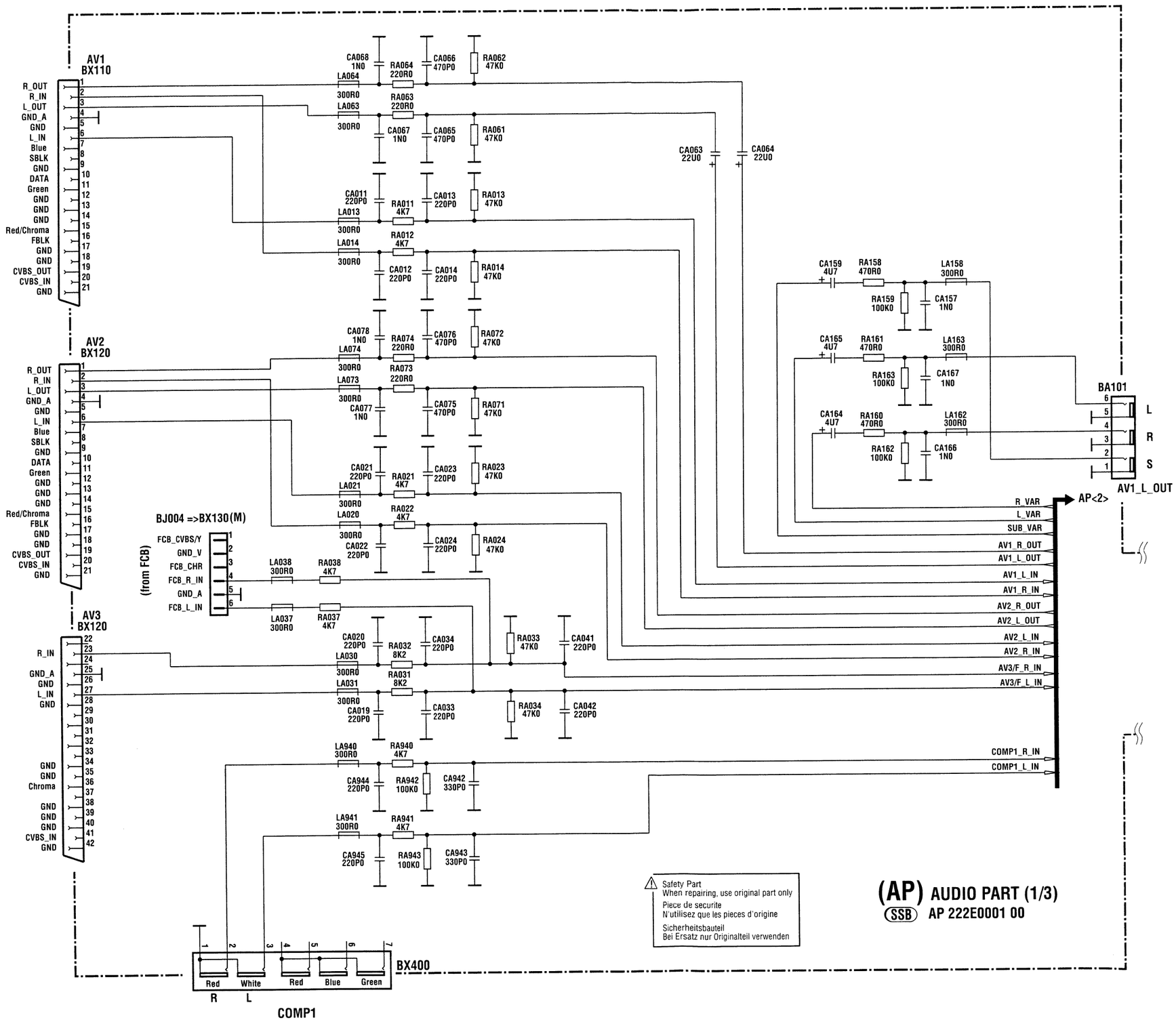


AUDIO PART - PARTIE AUDIO - AUDIOSTUFEN - CIRCUITO AUDIO - AUDIO

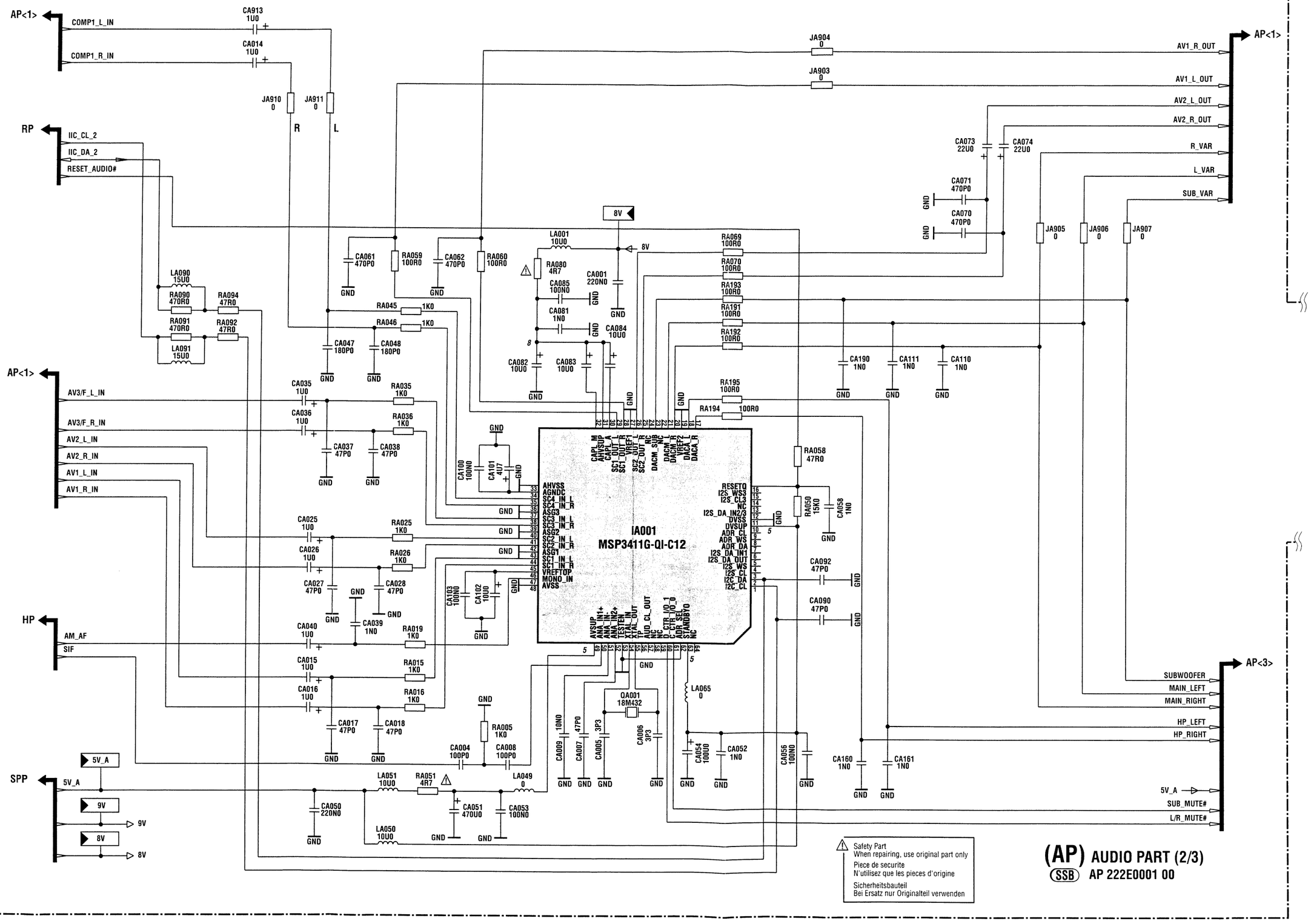
IA001- MSP34X0 / X1G



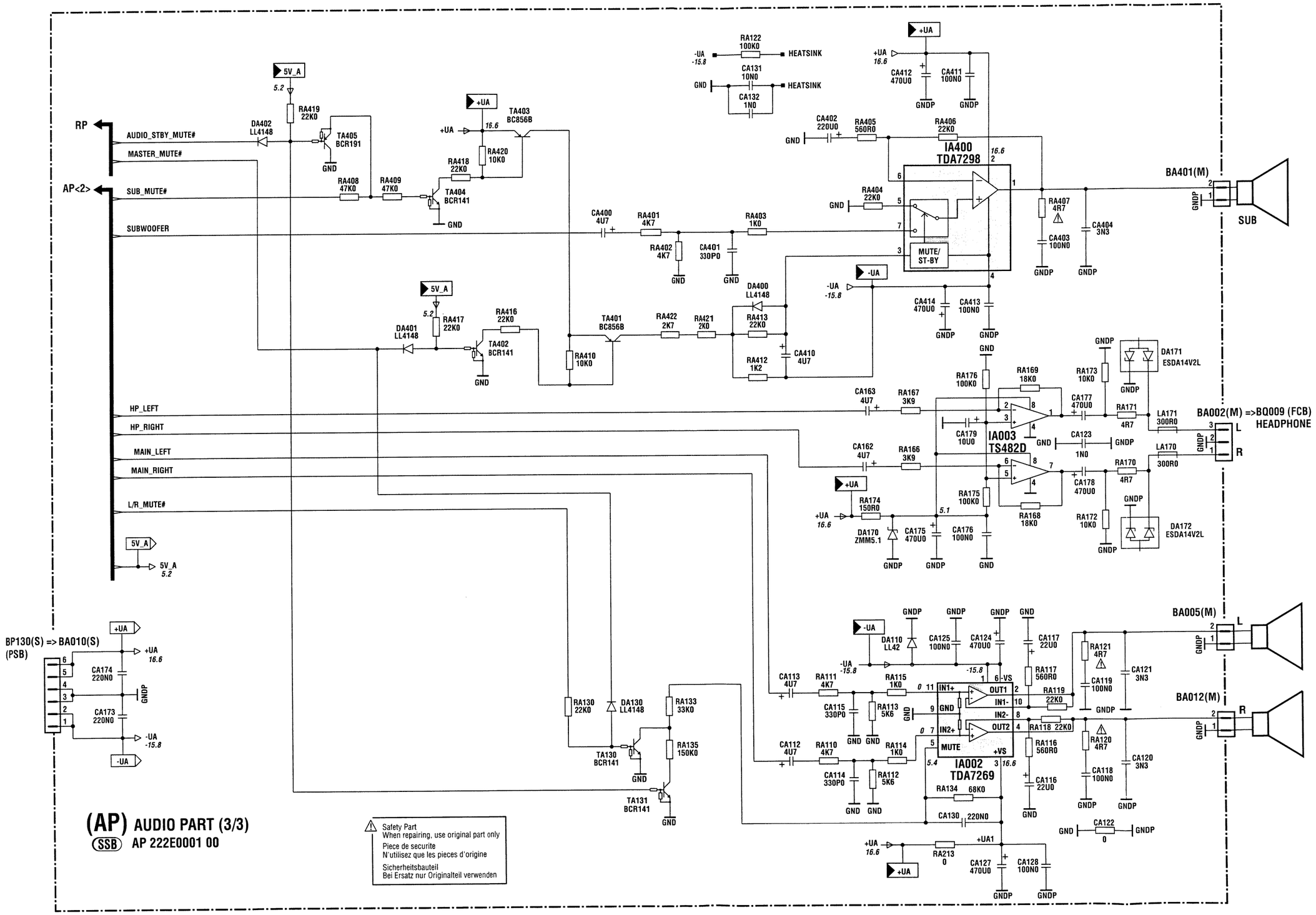
SMALL SIGNAL BOARD - PLATINE PETITS SIGNAUX - SIGNAL-PLATINE - PIASTRA PICCOLI SEGNALI - PLACA PEQUEÑA SEÑAL
AUDIO PART (1/3) - PARTIE AUDIO (1/3) - AUDIOSTUFEN (1/3) - CIRCUITO AUDIO (1/3) - AUDIO (1/3)



SMALL SIGNAL BOARD - PLATINE PETITS SIGNAUX - SIGNAL-PLATINE - PIASTRA PICCOLI SEGNALI - PLACA PEQUEÑA SEÑAL
AUDIO PART (2/3) - PARTIE AUDIO (2/3) - AUDIOSTUFEN (2/3) - CIRCUITO AUDIO (2/3) - AUDIO (2/3)

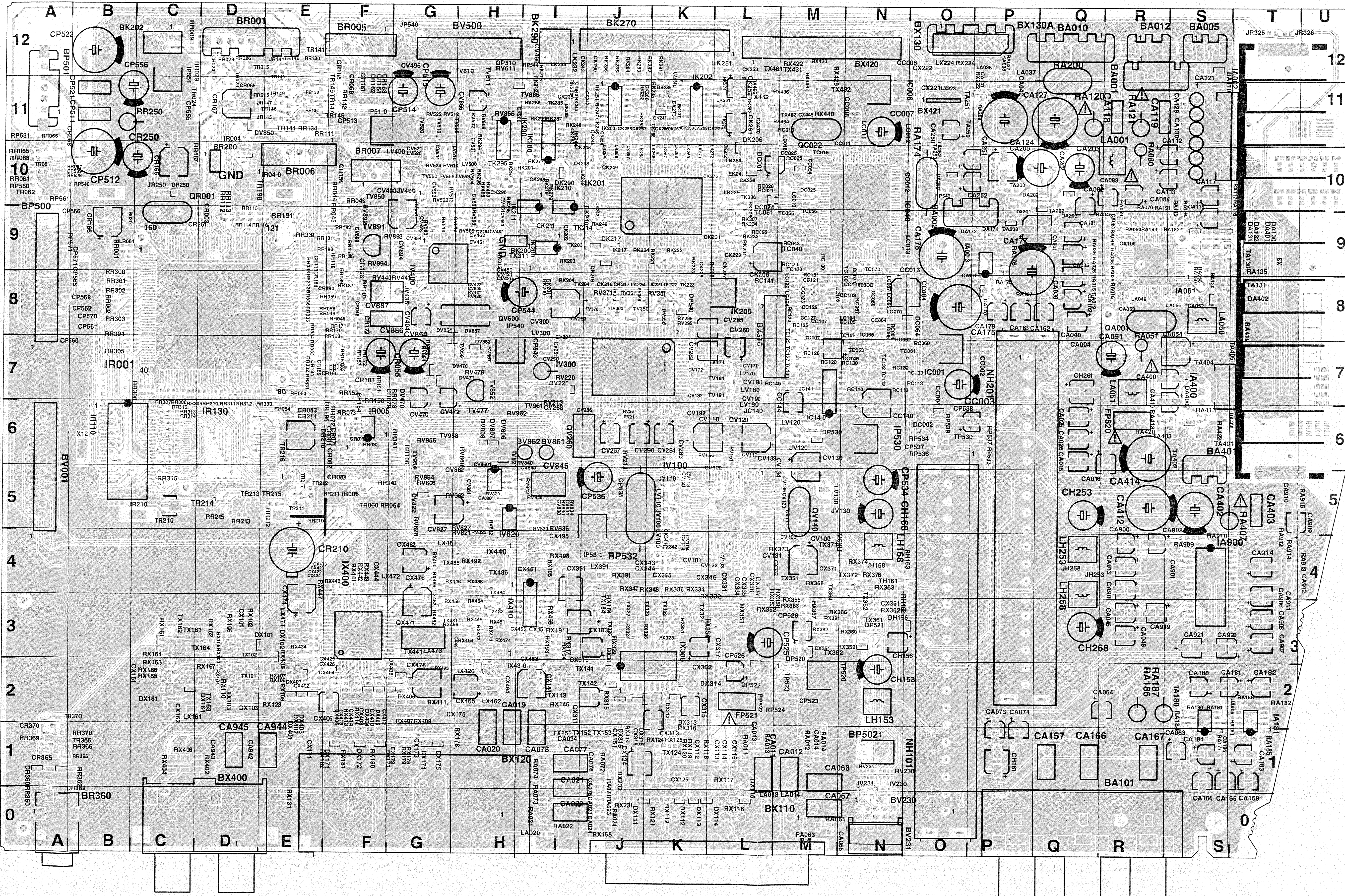


SMALL SIGNAL BOARD - PLATINE PETITS SIGNAUX - SIGNAL-PLATINE - PIASTRA PICCOLI SEGNALI - PLACA PEQUEÑA SEÑAL
AUDIO PART (3/3) - PARTIE AUDIO (3/3) - AUDIOSTUFEN (3/3) - CIRCUITO AUDIO (3/3) - AUDIO (3/3)



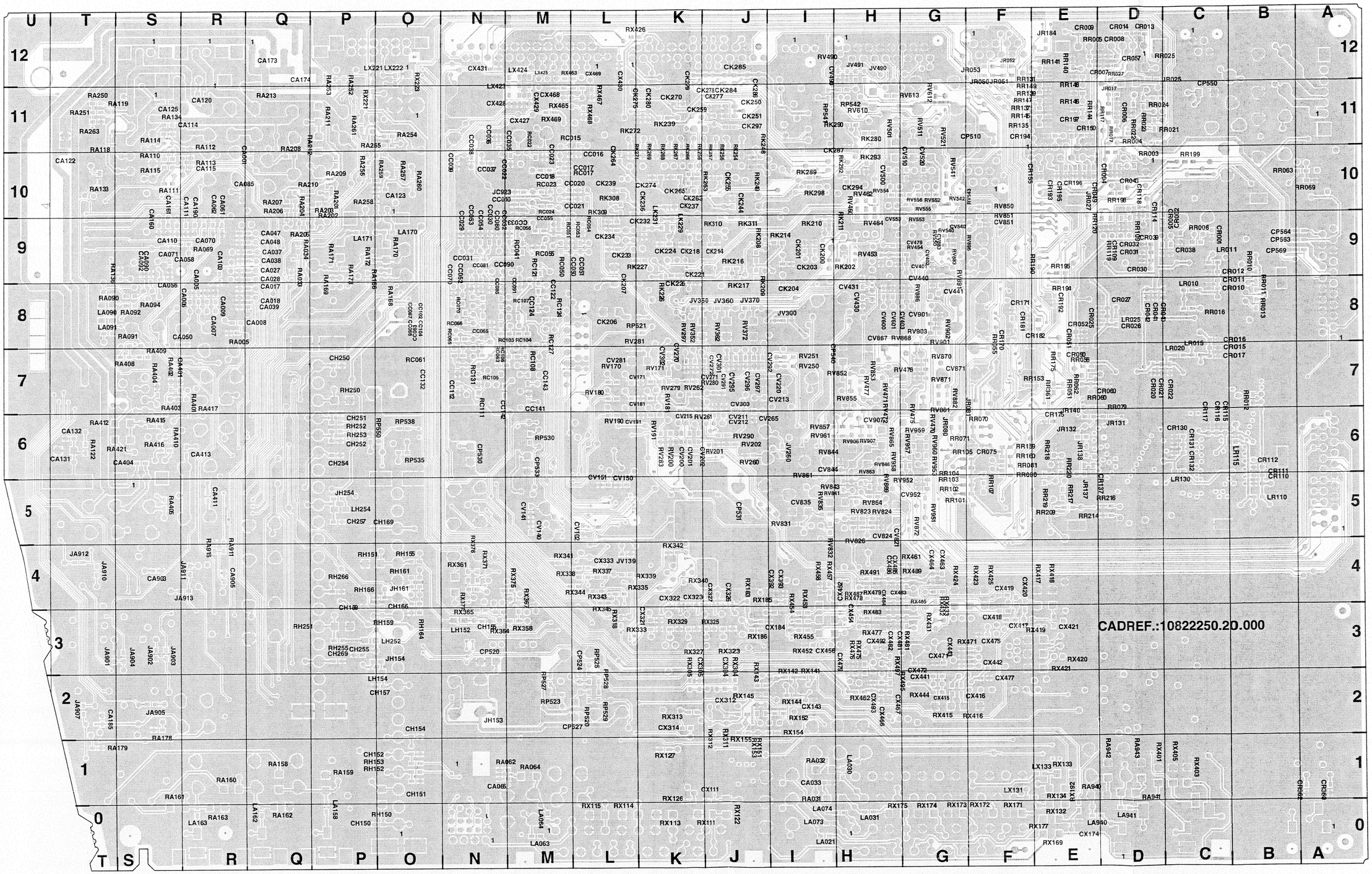
SMALL SIGNAL BOARD - PLATINE PETITS SIGNAUX - SIGNAL-PLATINE - PIASTRA PICCOLI SEGNALI - PLACA PEQUEÑA SEÑAL

COMPONENT SIDE - COTE COMPOSANTS - BESTÜCKUNGSSEITE - LATO COMPONENTI - LADO COMPONENTES



SMALL SIGNAL BOARD - PLATINE PETITS SIGNAUX - SIGNAL-PLATINE - PIASTRA PICCOLI SEGNALI - PLACA PEQUEÑA SEÑAL

SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDADURAS



COMPONENTS LOCATION (1/2) - LOCALISATION DES ELEMENTS (1/2)- LAGE DER BAUTEILE (1/2) - LOCALIZZAZIONE DEGLI ELEMENTI (1/2) - LOCALIZACION DE LOS COMPONENTES (1/2)

SMALL SIGNAL BOARD - PLATINE PETITS SIGNAUX - SIGNAL-PLATINE - PIASTRA PICCOLI SEGNALI - PLACA PEQUEÑA SEÑAL

* SOLDER SIDE - COTE CUIVRE - LÖTSEITE - LATO SALDATURE - LADO DEL COBRE

1 | 2 | 3

BA001	R12
BA002	O9
BA005	S12
BA010	Q12
BA012	R12
BA101	Q0
BA401	S6
BK200	H9
BK202	C12
BK270	K12
BK290	I12
BP500	A8
BP501	A11
BP502	N1
BR001	D12
BR005	F12
BR006	E10
BR007	F10
BR200	D10
BR360	A0
BV001	A5
BV230	N0
BV231	N0
BV500	H12
BV861	I6
BV862	I6
BX110	K0
BX120	G0
BX130	O12
BX310	L8
BX400	D0
BX420	M12
BX421	O11

CA001	Q10*
CA004	Q8
CA005	R8 *
CA006	R8 *
CA007	R8 *
CA008	R8 *
CA009	R8 *
CA011	L1
CA012	M1
CA013	L1
CA014	M1
CA015	Q6
CA016	R6
CA017	R8 *
CA018	R8 *
CA019	H1
CA020	H1
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CA022	I0
CA023	J0
CA024	J0
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CA026	Q6
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CA046	R3
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CA078	I1
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CA913	R4
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CH254	P6 *
CH255	P3 *
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CH261	Q7
CH268	Q3
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CP514	G11
CP515	G11
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CP521	B11
CP522	B12
CP523	M2
CP524	L2 *
CP525	L3
CP526	L2
CP527	L2 *
CP528	M3

CP530	N6 *
CP531	J5 *
CP533	M6 *
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CP535	J5
CP536	J5
CP537	O6
CP538	P6
CP539	A10
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CP543	I7
CP544	I8
CP550	C11*
CP555	C11
CP556	B11
CP560	A8
CP561	A8
CP562	A8
CP563	A9 *
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CP569	A9 *
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CP571	A9
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CR017	C7 *
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CR026	D8 *
CR027	D8 *
CR030	D9 *
CR031	D9 *
CR032	D9 *
CR038	C9 *
CR039	D9 *
CR040	C8 *
CR041	D8 *
CR042	D8 *
CR043	D10*
CR048	F8
CR049	E10*
CR050	E7 *
CR051	E8 *
CR052	E8 *
CR053	E6
CR055	F7
CR057	D12*
CR058	F12
CR060	D7 *
CR065	D11
CR068	A10
CR070	F6
CR071	F6
CR075	F6 *
CR079	G7
CR081	F6
CR082	F6
CR083	F5
CR109	D9 *
CR110	B5 *
CR111	B5 *
CR112	B6 *
CR113	E9
CR114	D10*
CR115	C6 *
CR116	C6 *
CR117	C6 *
CR118	D10*
CR130	C6 *
CR131	C6 *
CR132	C6 *
CR137	E6 *
CR150	E11*
CR154	F10
CR155	E10*
CR159	E7
CR160	F7

CR161	F12
CR162	F12
CR163	F12
CR164	F12
CR165	C10
CR166	B9
CR167	D11
CR170	F8 *
CR171	F8 *
CR172	F8
CR175	E6 *
CR181	E8 *
CR182	E8 *
CR183	F7
CR184	E7
CR185	F12
CR186	F9
CR188	E8
CR190	E8
CR192	E8 *
CR193	E10*
CR194	E11*
CR195	E10*
CR196	E10*
CR197	E11*
CR210	E4
CR211	E6
CR250	C10
CR251	C9
CR360	A1 *
CR362	A1 *
CR365	A1
CR370	A1
CV100	M4
CV101	K4
CV102	L5 *
CV103	L4
CV104	K5
CV105	M5
CV110	K6
CV111	M5
CV112	L6
CV113	K5
CV114	K5
CV120	L6
CV121	K5
CV122	L6
CV123	M5
CV130	M6
CV131	L4
CV132	L4
CV133	L6
CV134	M5
CV135	M5
CV140	M5 *
CV141	M5 *
CV150	L5 *
CV151	L5 *
CV170	L7
CV171	L7 *
CV172	K7
CV180	L7
CV181	L7 *
CV182	K7
CV190	L7
CV191	L6 *
CV192	K6
CV200	K6 *
CV201	K6 *
CV202	K6 *
CV211	J7 *
CV212	J7 *
CV213	J7 *
CV215	K7 *
CV220	J7 *
CV250	I7
CV251	I7
CV265	J6 *
CV266	J6
CV267	J6
CV268	I6
CV270	K7 *
CV271	K7 *
CV272	J7 *
CV280	L7
CV281	K7 *
CV282	K7
CV283	K6
CV284	K6
CV285	K8
CV290	J6
CV291	J7 *
CV292	J7 *
CV293	I8
CV294	I7
CV295	J7 *
CV296	J7 *

CV297	J7 *
CV300	I8
CV301	J7 *
CV302	K7 *
CV303	J7 *
CV400	G9
CV401	G9 *
CV402	G9 *
CV403	G8 *
CV404	G8
CV420	H9
CV421	H9
CV422	H9
CV430	H8 *
CV431	H8 *
CV440	G9 *
CV441	G8 *
CV450	H9
CV451	H9
CV452	H9
CV460	H9
CV462	H9
CV464	H9
CV470	G7
CV472	G7
CV479	H9 *
CV490	H12*
CV495	G12
CV496	I12
CV500	H10*
CV501	H10
CV503	H10
CV510	G10*
CV511	G10
CV513	G9
CV520	G10*
CV521	G10
CV523	G9
CV540	G9 *
CV552	G10
CV553	H10*
CV600	H8 *
CV601	H8 *
CV820	H5
CV821	H5 *
CV824	H5 *
CV827	G5
CV830	I5
CV834	I5
CV835	I5 *
CV840	I5
CV844	H6 *
CV845	I5
CV851	F9 *
CV854	G7
CV860	H5
CV861	H5
CV862	H5
CV865	H8
CV866	H11
CV867	H7 *
CV871	G7 *
CV883	G9 *
CV884	G9
CV886	F8
CV887	F8
CV892	F9
CV894	G9
CV901	G8 *
CV907	H6 *
CV952	G5 *
CX101	D3
CX111	J1 *
CX112	K1
CX113	L1
CX114	L1
CX115	L1
CX124	J1
CX125	K1
CX143	I2 *
CX144	I2
CX151	J2
CX161	C2
CX162	C2
CX171	E1
CX172	G1
CX173	G1
CX174	E0 *
CX175	G2
CX183	I3
CX184	J3 *
CX221	O11
CX222	O12
CX302	K2
CX304	J2 *
CX305	K2 *
CX311	J2

CX312	J2 *
CX313	K2
CX314	K2 *
CX315	K2
CX316	J3
CX317	K3
CX318	J2
CX321	K3 *
CX322	K4 *
CX323	K4 *
CX326	J4 *
CX327	J4 *
CX331	L4
CX332	L4
CX333	L4 *
CX334	L4
CX335	L4
CX336	L4
CX337	L4
CX341	K4
CX342	K4
CX343	K4
CX344	K4
CX345	K4
CX346	K4
CX351	M3
CX361	N3
CX371	M4
CX391	I4
CX392	I4 *
CX393	I4 *
CX402	E2
CX404	F2
CX405	F2
CX406	F2
CX408	F2
CX410	F2
CX412	G2
CX413	F2
CX414	F2
CX415	G2 *
CX416	G2 *
CX417	F3 *
CX418	F3 *
CX419	F4 *
CX420	F3 *
CX421	E3 *
CX422	E3
CX423	E3
CX424	E3
CX425	E3
CX426	E2
CX427	M11*
CX428	M11*
CX429	M11*
CX430	L12*
CX431	N12*
CX441	G2 *
CX442	G3 *
CX443	G3 *
CX444	F4
CX445	M11
CX451	I3
CX452	I4 *
CX453	I3
CX454	I3 *
CX455	I3
CX456	I3 *
CX461	I4
CX462	G4
CX463	G4 *
CX464	G4 *
CX465	H2
CX466	H2 *
CX467	H2 *
CX468	M11*
CX469	L11*
CX470	L11
CX471	G3 *
CX472	G3 *
CX473	E3
CX474	E3
CX475	F3 *
CX476	G3
CX477	F2 *
CX478	G2
CX479	H3 *
CX481	H3 *
CX482	H3 *
CX483	H4 *
CX484	H4 *
CX485	H4 *
CX486	H4 *
CX491	H3
CX492	H3 *
CX493	H2 *
CX494	H2

CX495	I4

DA110	S12
DA130	S9
DA131	S9
DA132	S9
DA170	P8
DA171	P9
DA172	P9
DA200	P9
DA202	Q10
DA203	Q10
DA250	O10
DA400	S6
DA401	S9
DA402	S8
DC001	L10
DC002	O6
DC024	L10
DC025	M10
DC064	O8
DH156	N3
DK206	L10
DK216	J9
DK217	J9
DK239	K11
DK290	I10
DP510	H12
DP520	M3
DP521	N3
DP522	L2
DP530	M6
DP540	K8
DR210	E6
DR250	C10
DR360	A1
DR362	A1
DV220	I7
DV470	G7
DV471	G7
DV476	G7
DV806	H6
DV807	H6
DV808	H6
DV822	G5
DV850	D11
DV853	H7
DV854	G7
DV867	H7
DX101	E3
DX102	E3
DX103	D2
DX111	K0
DX112	K0
DX113	K0
DX114	K0
DX115	L0
DX161	C2
DX164	C2
DX171	F1
DX172	F1
DX173	F1
DX174	G1
DX175	G1
DX311	J2
DX312	K2
DX313	K2
DX314	K2
DX315	J2
DX316	J2
DX401	E2
DX402	E2
DX403	E2
DX404	F2
DX405	F2
DX406	G2
DX407	E2
DX408	G2

FP520	R6
FP521	L2

IA001	R9
IA002	S11
IA003	P9
IA180	S2
IA181	T2
IA400	S7

IA900	S4
IC001	O7
IC006	N11
IC040	N10
IC140	M7
IK200	I9
IK201	K10
IK202	K11
IK203	J11
IK205	L8
IK210	I10
IK211	I10
IK217	J9
IK280	I11
IK290	H11
IP510	F11
IP530	N6
IP531	J5
IP540	H7
IP551	C11
IR001	D8
IR004	D10
IR005	F6
IR006	F6
IR040	D10
IR110	B6
IR130	D6
IV100	L5
IV230	N0
IV231	N0
IV300	J7
IV400	G9
IV820	H5
IV821	H5
IX300	K2
IX400	F3
IX410	I3
IX420	H3
IX430	H3
IX440	I4

JA901	T3 *
JA902	S3 *
JA903	S3 *
JA904	S3 *
JA905	S2 *
JA906	S2
JA907	T2 *
JA910	T4 *
JA911	R4 *
JA912	T4 *
JA913	R4 *
JC140	L6
JC141	M7
JC923	M10*
JH153	N2 *
JH154	O3 *
JH161	O4 *
JH168	N4
JH253	Q4
JH254	P5 *
JH268	Q4
JP540	G12
JR017	D11*
JR025	D12*
JR027	E10*
JR050	F12*
JR051	F12*
JR052	F12*
JR053	F12*
JR080	G6 *
JR081	G6 *
JR131	D6 *
JR132	E6 *
JR137	E6 *
JR138	E6 *
JR140	E6 *
JR141	E12
JR145	E11
JR147	E11
JR149	E11
JR184	E12*
JR210	B5
JR250	C10
JR325	T12
JR326	T12
JV100	K5
JV110	K5
JV120	M6
JV130	M5
JV139	L4 *
JV260	I6 *
JV300	I8 *
JV350	K8 *

JV360	J8 *
JV370	J8 *
JV400	G10
JV435	G8
JV490	H12*
JV491	H12*

LA001	R10
LA013	L0
LA014	M0
LA020	I0
LA021	I0 *
LA030	H1 *
LA031	H0 *
LA037	P12
LA038	P12
LA049	R8
LA050	S8
LA051	R7
LA063	M0 *
LA064	M0 *
LA065	S8
LA073	I0 *
LA074	H0 *
LA090	T8 *
LA091	T8 *
LA158	P0 *
LA162	Q0 *
LA163	R0 *
LA170	O9 *
LA171	P9 *
LA940	E0 *
LA941	D0 *
LC010	M10
LC011	N11
LC012	N10
LC013	N9
LC016	L11
LC065	N8
LC066	N8
LC067	N8
LC070	N8
LC102	M8
LC104	M8
LC122	M8
LC124	M8
LH152	N3 *
LH153	N2
LH154	O3 *
LH168	N4
LH252	P3 *
LH253	Q4
LH254	P5 *
LH268	Q4
LK229	K9 *
LK231	K9 *
LK232	I12
LK233	I12
LK239	L10
LK241	L10
LK248	J10
LK249	J10
LK251	L12
LK254	J10
LK256	J10
LK257	J10
LK258	J10
LK261	L11
LK264	L10
LK266	K10
LK267	K10
LK268	K10
LK269	K10
LK271	K10
LK272	L10
LR001	B9
LR010	C8 *
LR011	C9 *
LR015	C7 *
LR020	C7 *
LR025	D8 *
LR030	C9
LR110	B5 *
LR115	B6 *
LR130	C6 *
LV100	K5
LV110	K5
LV120	M6
LV130	M5
LV170	L7
LV180	L7
LV190	L6
LV300	I8
LV400	G10

LV500	H10
LV510	G10
LV520	G10
LX131	F1 *
LX133	E1 *
LX161	C2
LX221	P11*
LX222	O12*
LX223	O11
LX224	O12
LX391	J4
LX423	M12*
LX424	M12*
LX425	M12*
LX461	G4
LX462	H2
LX471	E3
LX472	G4
LX473	G2

NH101	O0
NH201	P7
QA001	R8
QC022	M11
QR001	C9
QV140	M5
QV260	J6
QV600	H8
QX471	G3

RA005	R8 *
RA011	L1
RA012	M1
RA013	L1
RA014	M1
RA015	R8
RA016	R8
RA019	R8
RA021	I0
RA022	I0
RA023	J0
RA024	J0
RA025	R9
RA026	R9
RA031	I1 *
RA032	I1 *
RA033	Q9 *
RA034	Q9 *
RA035	R9
RA036	R9
RA037	P11
RA038	P11
RA045	R9
RA046	R9
RA050	S9
RA051	R7
RA058	S9
RA059	R9
RA060	R9
RA061	M0
RA062	N1 *
RA063	M0
RA064	M1 *
RA069	R9 *
RA070	R9
RA071	J0
RA072	J1
RA073	I0
RA074	I1
RA080	R10
RA090	T8 *
RA091	T8 *
RA092	S8 *
RA094	S8 *
RA110	S10*
RA111	S10*
RA112	R11*
RA113	R10*
RA114	S11*
RA115	S10*
RA116	S10
RA117	S10
RA118	T11*
RA119	T11*
RA120	Q11
RA121	R11
RA122	T6 *
RA130	S9
RA133	T10*
RA134	S11*
RA135	S9

RA136	S9 *
RA158	Q1 *
RA159	P1 *
RA160	R1 *
RA161	S0 *
RA162	Q0 *
RA163	R0 *
RA166	P9 *
RA167	P8
RA168	O9 *
RA169	P9 *
RA170	O9 *
RA171	P9 *
RA172	P9 *
RA173	P9 *
RA174	O10
RA175	P8
RA176	P9
RA177	S1
RA178	S2 *
RA179	T1 *
RA180	S2
RA181	S2
RA182	T2
RA183	S2
RA184	S2
RA185	T1
RA186	R2
RA187	S2
RA188	T2
RA191	R9
RA192	S9
RA193	R9
RA194	S9
RA195	S9
RA200	Q12
RA201	P10*
RA202	Q9 *
RA203	P10*
RA204	Q10*
RA205	Q9 *
RA206	Q10*
RA207	Q10*
RA208	Q10*
RA209	P10*
RA210	Q10*
RA211	P11*
RA212	P11*
RA213	Q12*
RA250	T11*
RA251	T11*
RA252	P12*
RA253	P12*
RA254	O11*
RA255	O11*
RA256	P10*
RA257	O10*
RA258	O10*
RA259	P10*
RA260	O10*
RA261	P11*
RA262	P11
RA263	T11*
RA401	R7 *
RA402	S7 *
RA403	S6 *
RA404	S7 *
RA405	S5 *
RA406	S6
RA407	S5
RA408	S7 *
RA409	S7 *
RA410	S6 *
RA412	S6 *
RA413	S6
RA415	S6 *
RA416	S6 *
RA417	R6 *
RA418	R6
RA419	S8
RA420	R6
RA421	S6 *
RA422	S6
RA909	S4
RA910	S4
RA911	R4 *
RA912	T5
RA913	T4
RA914	T4
RA915	R4 *
RA916	T5
RA940	E1 *
RA941	D1 *
RA942	D1 *
RA943	D1 *
RC015	M11*
RC016	L11

RC017	M10*
RC020	M10
RC021	M10
RC022	M10*
RC023	M10*
RC024	M10*
RC025	M10
RC041	M9 *
RC042	M9
RC050	M9 *
RC051	M9 *
RC052	L9
RC053	L9 *
RC054	L9 *
RC055	M9 *
RC056	M9 *
RC060	O7
RC061	N7 *
RC062	N7
RC063	N7 *
RC064	N8
RC065	N8 *
RC066	N8 *
RC067	N8
RC070	N8 *
RC100	M8
RC101	M8
RC103	N8 *
RC104	M8 *
RC105	N7 *
RC106	M7 *
RC107	M8 *
RC108	M7 *
RC110	N7
RC111	N7 *
RC112	N7
RC113	N7
RC120	M9
RC121	M9 *
RC123	M8
RC124	M8 *
RC125	M8
RC126	M7
RC127	M8 *
RC128	M7
RC130	N7
RC131	N7 *
RC132	N7
RC133	N7
RC140	M7
RC141	L8
RH150	O1 *
RH151	P4 *
RH152	O1 *
RH153	O1 *
RH155	O4 *
RH159	O3 *
RH161	O4 *
RH162	O3
RH163	O4
RH164	O3 *
RH166	O4 *
RH250	P7 *
RH251	P3 *
RH252	P6 *
RH253	P6 *
RH255	P3 *
RH266	P4 *
RK200	I9
RK201	I9
RK202	I9 *
RK203	I9
RK204	I8
RK208	J9 *
RK209	J9 *
RK210	I9 *
RK211	I9 *
RK212	I11
RK213	I12
RK214	I9 *
RK216	J9 *
RK217	J9 *
RK221	K9
RK222	K9
RK223	K9
RK224	J9
RK226	K9 *
RK227	K9 *
RK228	L9
RK231	L9
RK232	I11
RK233	L9
RK234	L9
RK235	K11
RK237	K11
RK239	K11*
RK242	J9

RK243	I11
RK244	I11
RK246	I11
RK247	J11
RK248	J10*
RK249	J10*
RK251	J11
RK252	J11
RK253	J11
RK254	J10*
RK256	J10*
RK257	J10*
RK258	J10*
RK263	K10*
RK266	K10*
RK267	K10*
RK268	K10*
RK269	K10*
RK271	K10*
RK272	L10*
RK273	K11
RK274	L11
RK275	L11
RK277	I10
RK278	I10
RK279	I10
RK280	H11*
RK281	K12
RK282	J12
RK283	J12
RK284	J12
RK285	J12
RK286	J12
RK287	I11
RK288	I11
RK289	I10 *
RK290	H11*
RK291	I10
RK292	H10*
RK293	H10*
RK294	H10
RK295	H10
RK296	H10
RK297	H10
RK298	I10 *
RK299	I11
RK306	L10
RK307	L9
RK308	L10*
RK309	L9 *
RK310	J9 *
RK311	J9 *
RK312	H9
RP520	L2 *
RP521	K8 *
RP522	L2
RP523	M2 *
RP524	M2
RP525	L2 *
RP526	A10
RP527	M2 *
RP528	L2 *
RP529	L2 *
RP530	M6 *
RP531	A11
RP532	J5
RP533	P6
RP534	O6
RP535	O6 *
RP536	O6
RP537	P6
RP538	O6 *
RP539	O6
RP540	A10
RP541	I11 *
RP542	H11*
RP543	O10
RP544	I12
RP550	P6 *
RP560	A10
RP561	A10
RP571	A9
RR001	B9
RR002	B8
RR003	D10*
RR004	D10*
RR005	E12*
RR006	C9 *
RR009	C12
RR010	B9 *
RR011	B8 *
RR012	B7 *
RR013	B8 *
RR015	E11
RR016	C8 *
RR017	D11*
RR021	D11*

COMPONENTS LOCATION (2/2) - LOCALISATION DES ELEMENTS (2/2) - LAGE DER BAUTEILE (2/2) - LOCALIZZAZIONE DEGLI ELEMENTI (2/2) - LOCALIZACION DE LOS COMPONENTES (2/2)

SMALL SIGNAL BOARD - PLATINE PETITS SIGNAUX - SIGNAL-PLATINE - PIASTRA PICCOLI SEGNALI - PLACA PEQUEÑA SEÑAL

* SOLDER SIDE - COTE CUIVRE - LÖTSEITE - LATO SALDATURE - LADO DEL COBRE

RR022	D11*	
RR023	D11*	
RR024	D11*	
RR025	D12*	
RR026	D12	
RR027	D11*	
RR028	D12	
RR029	D12	
RR044	F10	
RR045	F9	
RR046	F9	
RR048	F8	
RR049	F8	
RR051	E7	*
RR053	E7	
RR054	E7	
RR055	F8	*
RR056	E7	*
RR058	F8	
RR059	F8	
RR060	E7	*
RR061	A10	
RR062	E7	*
RR063	A10*	
RR064	F5	
RR065	A10	
RR066	A10	
RR067	A10	
RR068	A10	
RR069	A10*	
RR070	F6	*
RR071	F6	*
RR072	F6	
RR073	F6	
RR078	G7	
RR079	E7	*
RR080	F5	*
RR081	F6	*
RR082	F6	
RR101	F5	*
RR102	F5	*
RR103	F5	*
RR104	F6	*
RR105	F6	*
RR106	G6	
RR107	F5	*
RR109	D9	*
RR110	E9	
RR111	F11	
RR112	D9	
RR113	D9	
RR114	D9	
RR115	D9	
RR116	D9	
RR117	D11*	
RR119	D9	*
RR120	D9	*
RR130	E12	
RR131	E12*	
RR134	E11	
RR135	E11*	
RR136	E11	
RR137	E11*	
RR138	E11	
RR139	E11*	
RR140	E12*	
RR141	E12*	
RR142	F11	
RR144	E11*	
RR145	E11*	
RR146	E11*	
RR147	E11*	
RR148	E12*	
RR149	E11*	
RR150	F7	
RR151	F7	
RR152	F7	
RR153	E7	*
RR154	F9	
RR156	F7	
RR157	F7	
RR159	F6	*
RR160	F6	*
RR161	F7	
RR163	F7	
RR167	C10	
RR170	F8	
RR171	F8	
RR172	F7	
RR175	E7	*
RR180	F8	
RR181	F9	
RR182	F9	
RR183	F7	
RR184	F7	
RR185	F9	
RR187	F8	
RR189	F8	

RR190	E9	*
RR191	E9	
RR193	E9	
RR194	E8	*
RR195	E9	*
RR196	F7	
RR198	D10*	
RR199	C10*	
RR209	E5	*
RR210	E5	
RR211	E5	
RR212	E5	
RR213	D5	
RR214	D5	*
RR215	D5	
RR216	D5	*
RR217	E5	*
RR218	E6	*
RR219	E5	*
RR220	E6	*
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RR301	B8	
RR302	B8	
RR303	B8	
RR304	B8	
RR305	B7	
RR306	C7	
RR307	C7	
RR308	C7	
RR309	C7	
RR310	D7	
RR311	D7	
RR312	D7	
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RR340	G5	
RR341	G6	
RR360	A1	
RR361	E7	*
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RR365	B1	
RR366	B1	
RR369	A1	
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RV151	L6	
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RV180	L7	*
RV181	K7	*
RV190	L6	*
RV191	K6	*
RV200	K6	*
RV201	J6	*
RV202	J6	*
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RV212	J6	
RV213	I7	
RV220	I7	
RV230	N1	
RV231	N1	
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RV262	K7	*
RV267	J6	
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RV290	J6	*
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RV296	K8	
RV297	K8	*
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RV351	K8	
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RV360	J8	
RV361	J8	
RV362	J8	*
RV370	J8	
RV371	J8	
RV372	J8	*
RV430	H8	

RV431	H8	
RV440	F8	
RV441	G8	
RV453	H9	*
RV454	G9	*
RV460	H10*	
RV461	H10	
RV462	H10*	
RV463	H10	
RV464	H10*	
RV465	H10	
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RV471	H7	*
RV472	H7	*
RV475	G6	*
RV476	G7	*
RV477	H7	*
RV478	H7	
RV490	H12*	
RV500	H9	
RV501	H10*	
RV502	H11	
RV503	H9	
RV504	H10	
RV510	G9	
RV511	G10*	
RV512	G11	
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RV514	G10	
RV520	G9	
RV521	G10*	
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RV523	G10	
RV524	G10	
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RV542	G10*	
RV543	G10*	
RV550	G9	*
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RV556	G10*	
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RV611	H11	
RV612	G11*	
RV613	H11*	
RV806	G5	
RV820	H5	
RV821	H5	
RV822	H5	
RV823	H5	*
RV824	H5	*
RV825	H5	
RV826	H5	*
RV827	H5	
RV828	G5	
RV830	I5	
RV831	I5	*
RV832	I5	*
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RV835	I5	*
RV836	I5	
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RV867	H7	
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RV882	G7	*
RV883	G9	*

RV886	G8	*
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RV892	F9	
RV893	G9	
RV894	G9	
RV896	G9	*
RV901	G8	*
RV902	G8	*
RV903	G8	*
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RV907	H6	*
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RV956	G6	
RV957	G6	*
RV958	G6	*
RV959	G6	*
RV960	G6	*
RV961	H6	*
RV962	H7	
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RX103	D3	
RX104	D2	
RX105	D3	
RX106	D3	
RX107	E2	
RX108	E2	
RX109	E2	
RX110	D2	
RX111	J0	*
RX112	K0	
RX113	K0	*
RX114	L0	*
RX115	L0	*
RX116	L0	
RX117	L0	
RX118	K1	
RX119	K1	
RX120	K1	
RX121	K0	
RX122	J0	*
RX123	E2	
RX124	K1	
RX125	K1	
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RX127	K1	*
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RX133	E1	*
RX134	E1	*
RX141	I2	*
RX142	I2	*
RX143	J2	*
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RX145	J2	*
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RX153	J2	*
RX154	I2	*
RX155	J2	*
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RX163	C2	
RX164	C3	
RX165	C2	
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RX178	G1	
RX179	G1	
RX180	F1	
RX181	F1	
RX182	F1	
RX183	J4	*
RX184	J3	
RX185	I3	*
RX186	J3	*
RX191	I3	
RX192	E0	*
RX193	I3	
RX194	I3	
RX195	I4	
RX221	P11*	
RX222	O11	
RX223	O12*	
RX224	O12	
RX231	J0	

RX232	J1	
RX304	J2	*
RX305	K2	*
RX311	J2	*
RX312	J2	*
RX313	K2	*
RX314	J2	
RX315	J2	
RX316	K2	
RX317	I3	
RX318	L3	*
RX322	J3	
RX323	J3	*
RX324	J3	
RX325	J3	*
RX326	K3	
RX327	K3	*
RX328	K3	
RX329	K3	*
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RX337	L4	*
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RX339	L4	*
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RX343	L4	*
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RX378	N4	*
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RX383	M3	
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RX402	D1	
RX403	C1	*
RX404	C1	
RX405	C1	*
RX406	C1	
RX407	G2	
RX409	G2	
RX411	G2	
RX413	F2	
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RX418	E4	*
RX419	E3	*
RX420	E3	*
RX421	E3	*
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RX431	G3	*
RX432	G3	*
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RX435	E2	
RX436	M11	
RX439	M11	

RX440	M11	
RX441	F4	
RX442	F4	
RX443	F4	
RX444	G2	*
RX446	H4	
RX447	F3	
RX448	F4	
RX449	H3	
RX450	H3	
RX451	H3	
RX452	I3	*
RX453	I3	*
RX454	I3	*
RX455	I3	*
RX456	I3	
RX457	I4	*
RX458	I4	*
RX461	G4	*
RX462	H2	*
RX463	M12*	
RX464	L11	
RX465	M11*	
RX466	L11	
RX467	L11	*
RX468	L11	*
RX469	M11*	
RX471	G3	*
RX472	H3	
RX473	H3	
RX474	H3	
RX475	H3	*
RX476	H3	*
RX477	H3	*
RX478	H3	*
RX479	H4	*
RX481	G3	*
RX482	G3	
RX483	H3	*
RX484	H3	
RX485	G4	*
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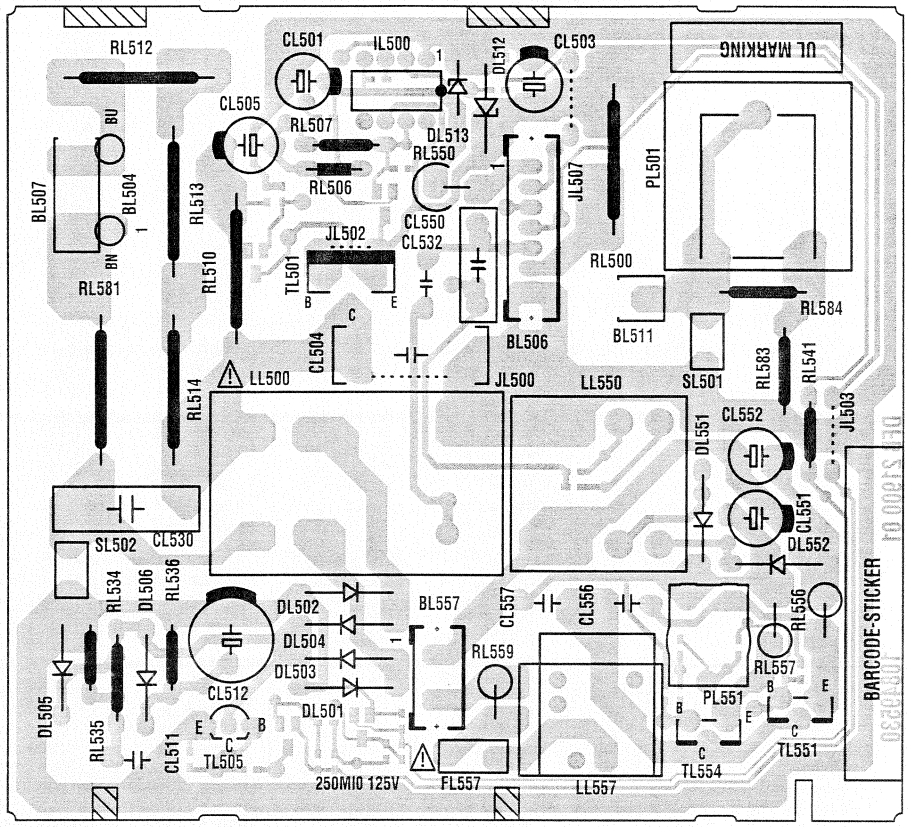
RX487	H4	*
RX488	H4	
RX489	G4	*
RX490	G4	
RX491	H4	*
RX492	H4	
RX493	H2	
RX494	H3	
RX495	H2	*
RX496	G3	
RX497	H3	*
RX498	I4	

TA130	S9	
TA131	S8	
TA200	P10	
TA201	P10	
TA202	Q10	
TA250	P11	
TA251	P11	
TA252	O10	
TA253	O10	
TA401	S6	
TA402	S6	
TA403	S6	
TA404	S7	
TA405	S7	
TC015	M10	
TC040	M9	
TC051	L9	
TC055	M9	
TC056	M9	
TC061	N7	
TC063	N7	
TC065	N8	
TC070	N8	
TC100	M8	
TC105	M8	
TC107	M8	
TC112	N7	
TC120	M9	
TC125	M8	
TC127	M7	
TC132	N7	
TC140	M7	
TH161	O4	
TK203	I9	
TK204	I8	
TK214	I9	
TK221	K9	
TK222	K9	
TK223	K9	

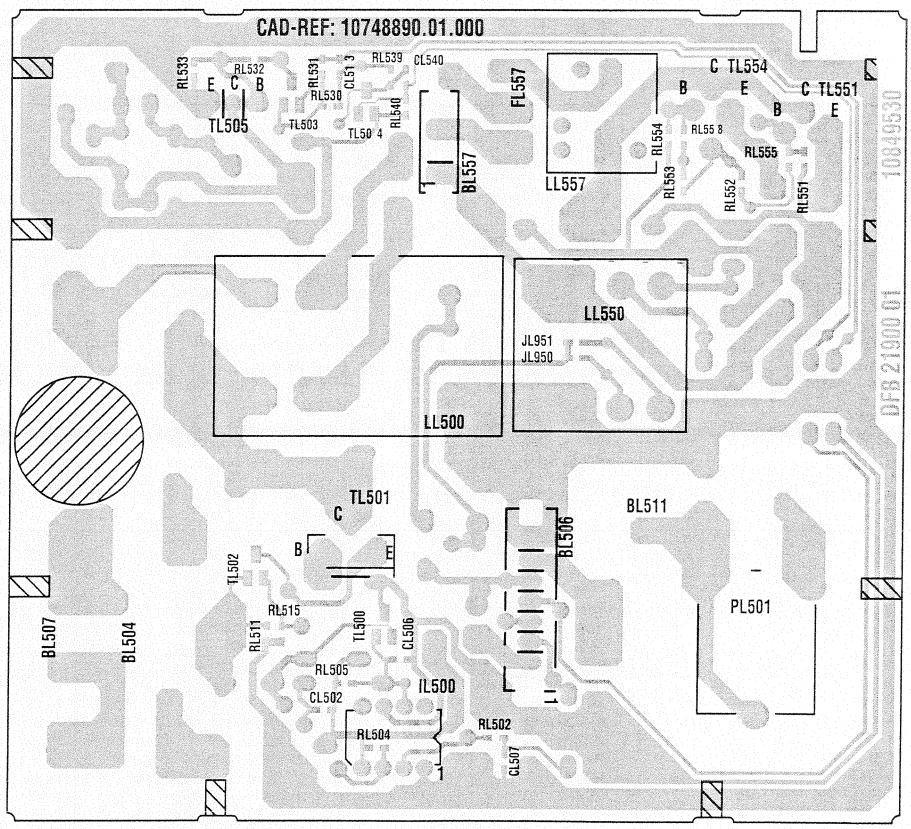
TK224	J9	
TK235	I11	
TK295	H10	
TK306	L10	
TK311	I9	
TP520	M2	
TP523	M2	
TP530	O6	
TR015	D11	
TR023	D11	
TR024	D11	
TR060	F5	
TR061	A10	
TR062	A10	
TR140	E12	
TR141	E12	
TR144	E11	
TR145	E11	
TR146	E11	
TR147	E11	
TR148	E11	
TR149	E11	
TR198	D10	
TR210	C5	
TR211	E5	
TR212	E5	
TR213	D5	
TR214	D5	
TR215	E5	
TR216	E6	
TR217	E5	
TR365	A1	
TR370	A2	
TV171	L7	
TV181	L7	
TV191	L6	
TV350	J8	
TV360	J8	
TV370	J8	
TV477	H7	
TV500	H11	
TV510	G11	
TV520	G11	
TV550	G10	
TV553	H10	
TV556	G10	
TV610	H11	
TV611	H11	
TV850	F9	
TV852	H7	
TV856	G7	
TV866	H11	
TV891	F9	
TV954	G6	
TV958	G6	
TV961	I7	
TX101	D2	
TX102	D3	
TX103	D2	
TX124	K1	
TX141	J2	
TX142	I2	
TX143	I2	
TX151	I2	
TX152	J2	
TX153	J2	
TX161	C3	
TX162	C3	
TX163	D2	
TX164	C2	
TX184	J3	
TX321	K3	
TX322	K3	
TX323	K3	
TX326	J3	
TX327	J3	
TX351	M4	
TX352	M3	
TX361	N3	
TX362	N3	
TX364	M3	
TX371	M4	
TX372	N4	
TX431	M11	
TX432	M11	
TX441	G2	
TX461	L12	
TX462	L11	
TX463	M11	
TX481	G3	
TX482	H3	
TX483	G4	
TX484	H4	
TX485	G4	
TX486	H4	

DYNAMIC FOCUS MODULE - MODULE FOCUS DYNAMIQUE - DYNAMIKFOKUS BAUSTEIN - MODULO FUOCO DINAMICO - MÓDULO FOCO DINÁMICO

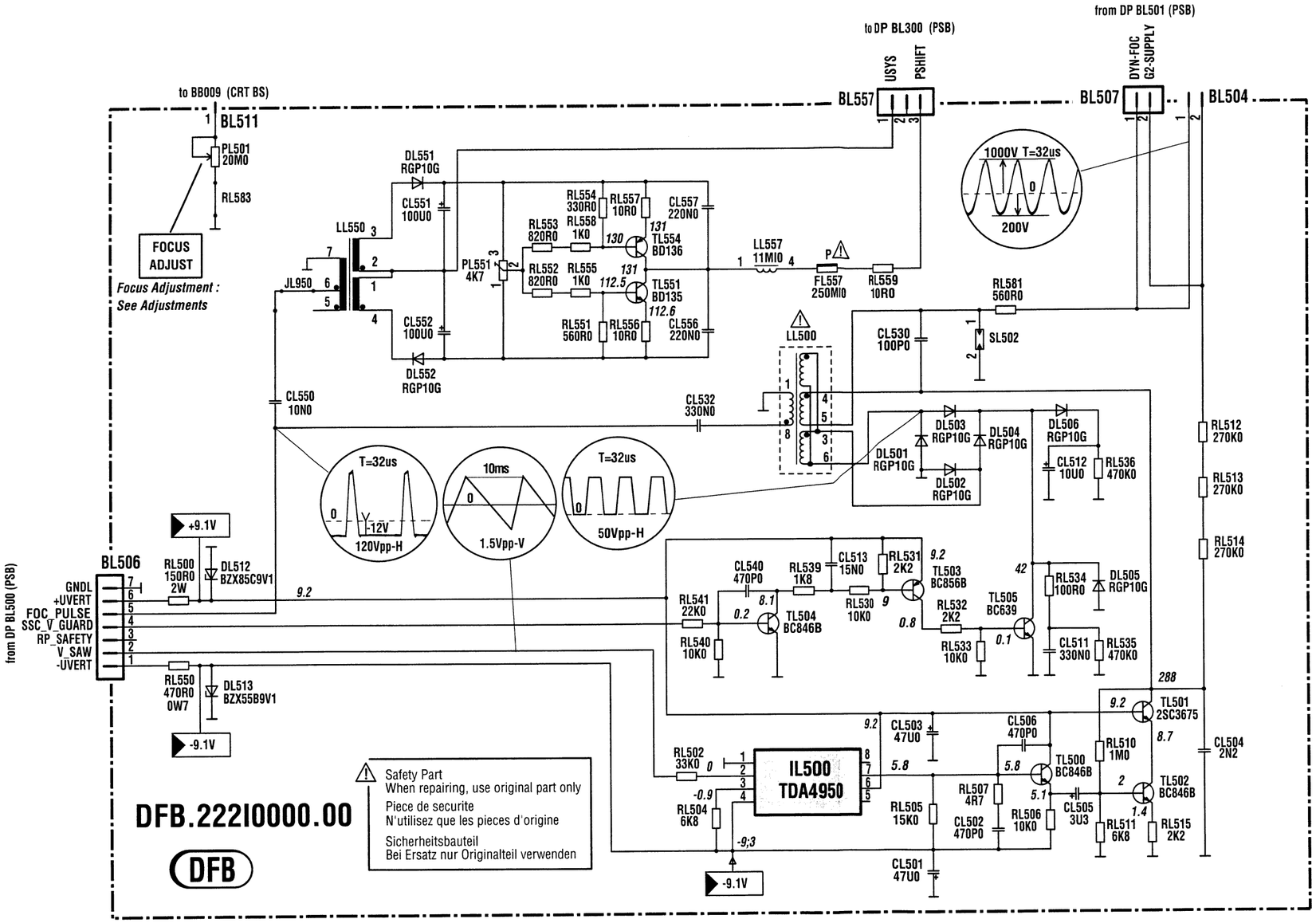
COMPONENT SIDE - COTE COMPOSANTS - BESTÜCKUNGSSEITE - LATO COMPONENTI - LADO COMPONENTES



SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDADURAS

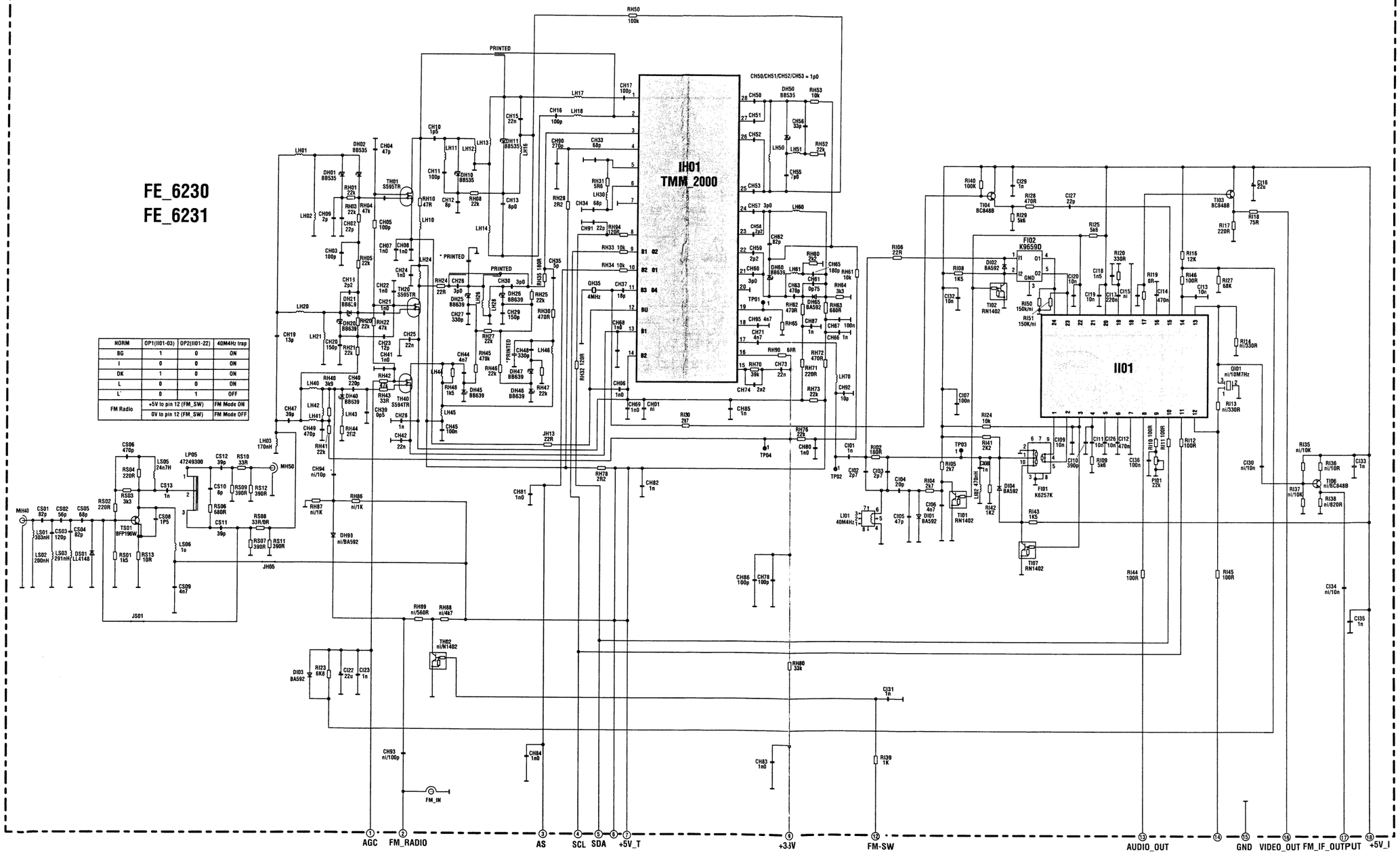


DYNAMIC FOCUS MODULE - MODULE FOCUS DYNAMIQUE - DYNAMIKFOKUS BAUSTEIN - MODULO FUOCO DINAMICO - MÓDULO FOCO DINÁMICO

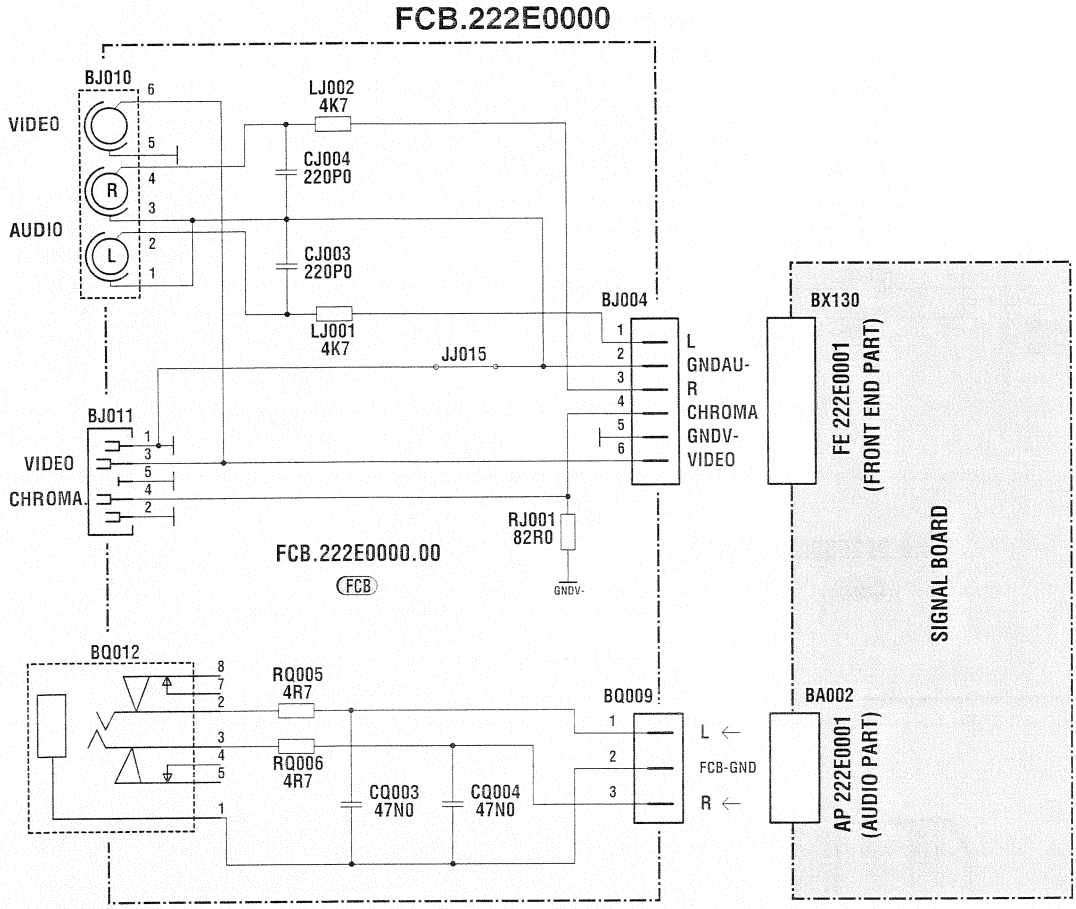


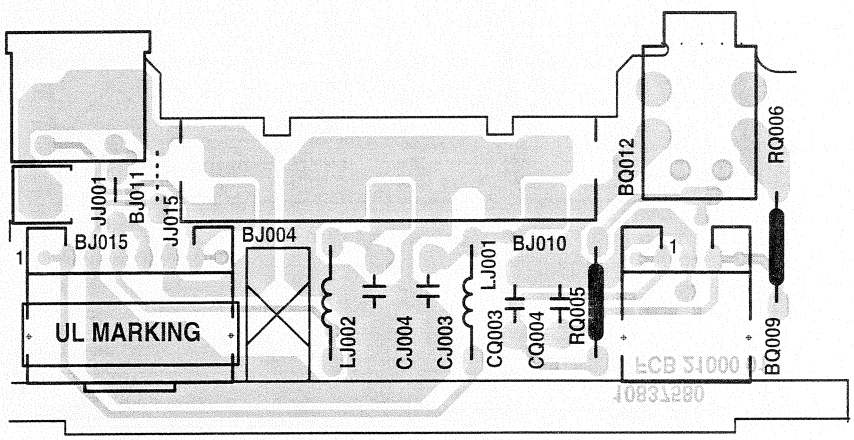
FE_6230
FE_6231

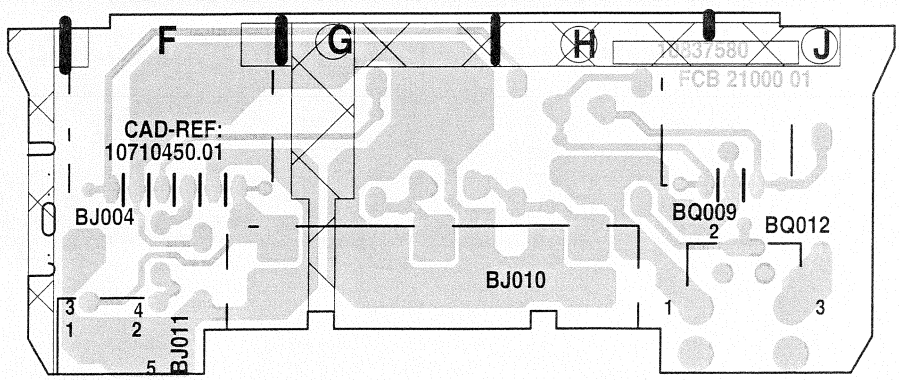
NORM	OP1(II01-03)	OP2(II01-22)	40M4Hz trap
BG	1	0	ON
I	0	0	ON
DK	1	0	ON
L	0	0	ON
L'	0	1	OFF
FM Radio	+5V to pin 12 (FM_SW)		FM Mode ON
	0V to pin 12 (FM_SW)		FM Mode OFF



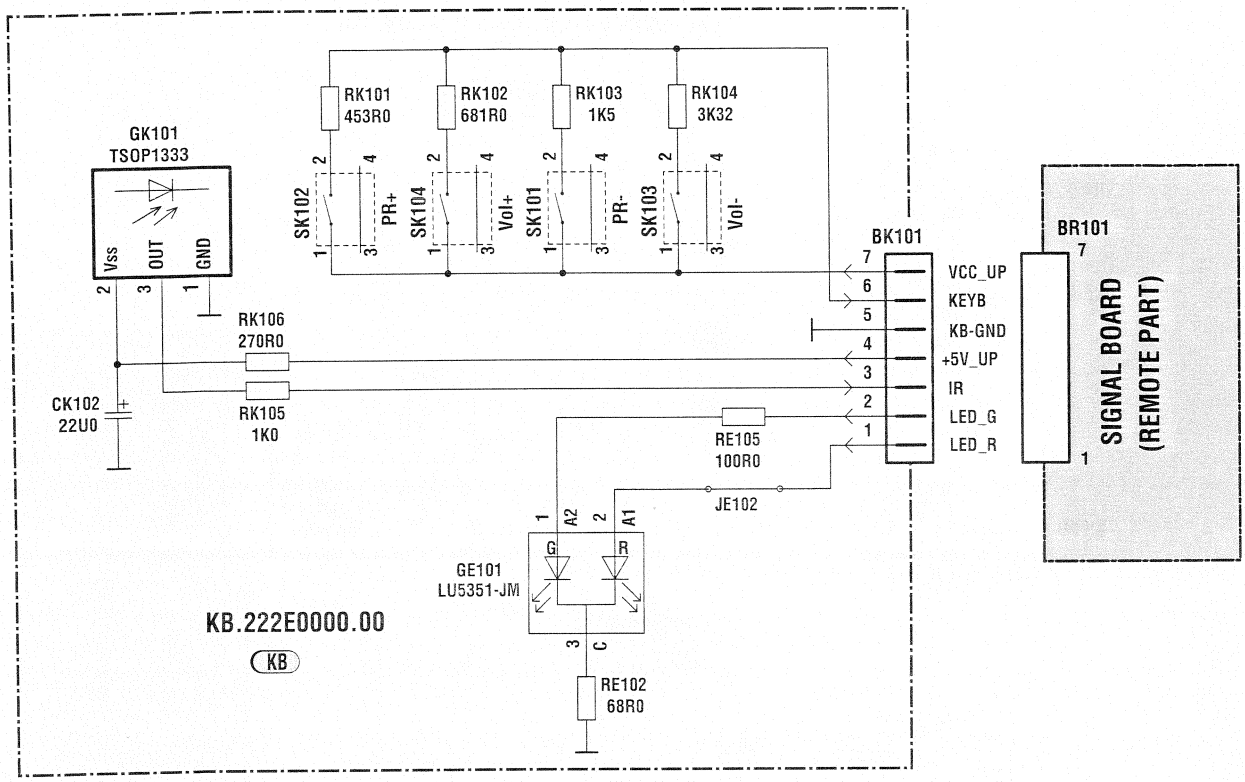
FRONT CONNECTOR BOARD - PRISES EN FACADE ET INTERCONNEXION DU CLAVIER -FRONT ANSCHLUSSPLATTE - PIASTRA CONNESSIONE FRONTALE - PLÁTINA MANDOS FRONTAL

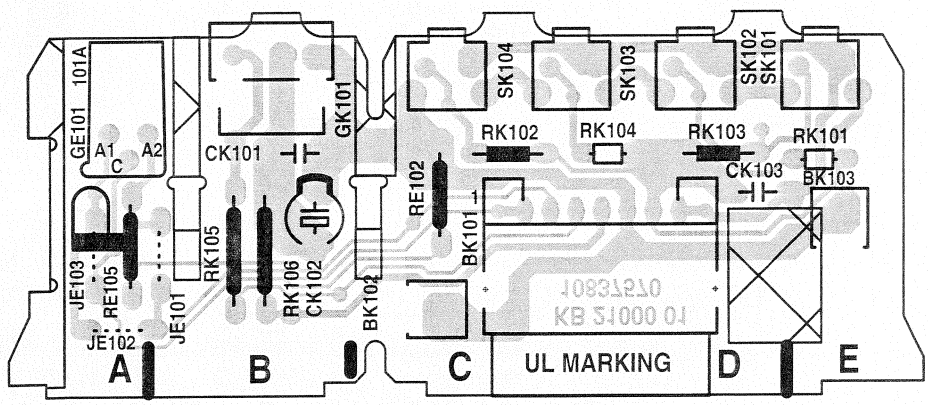


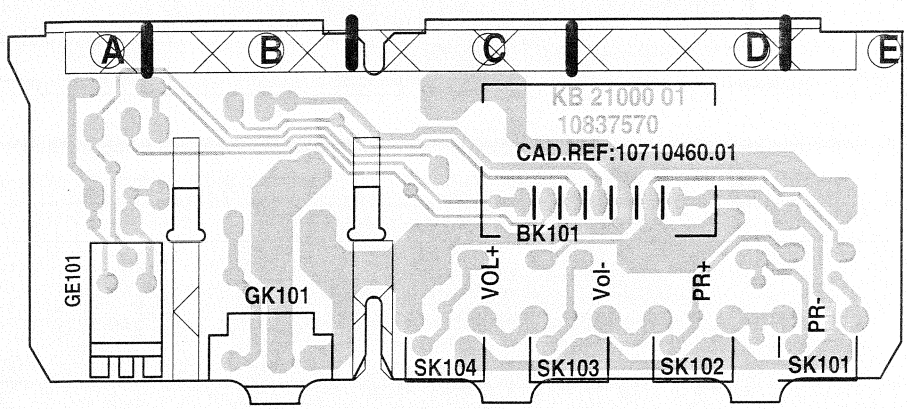




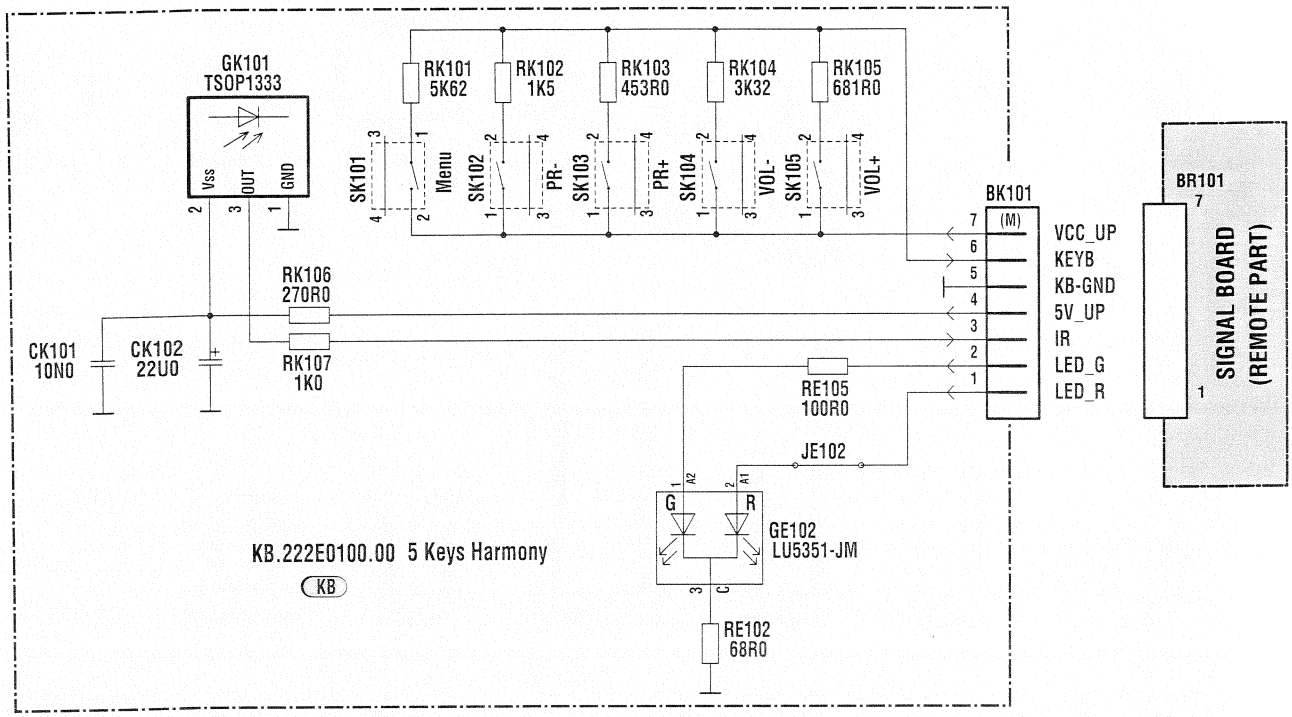
KB.222E0000.00 - KEYBOARD 4 Key

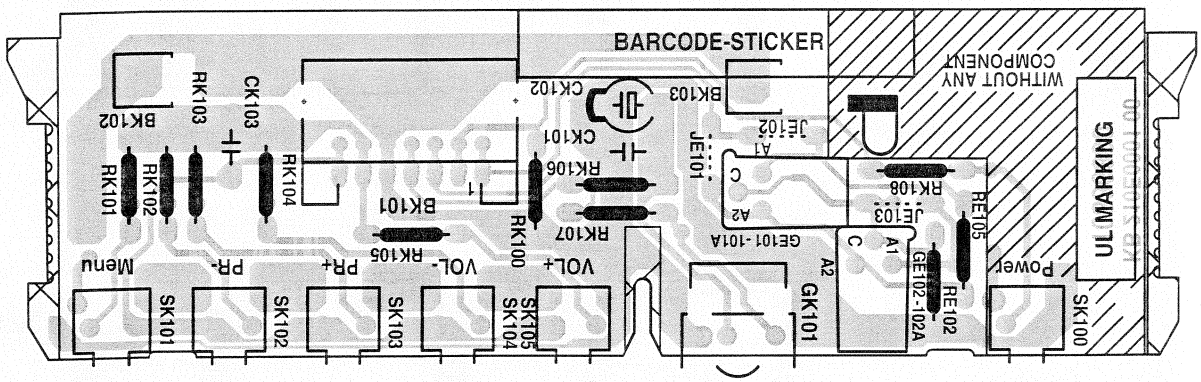


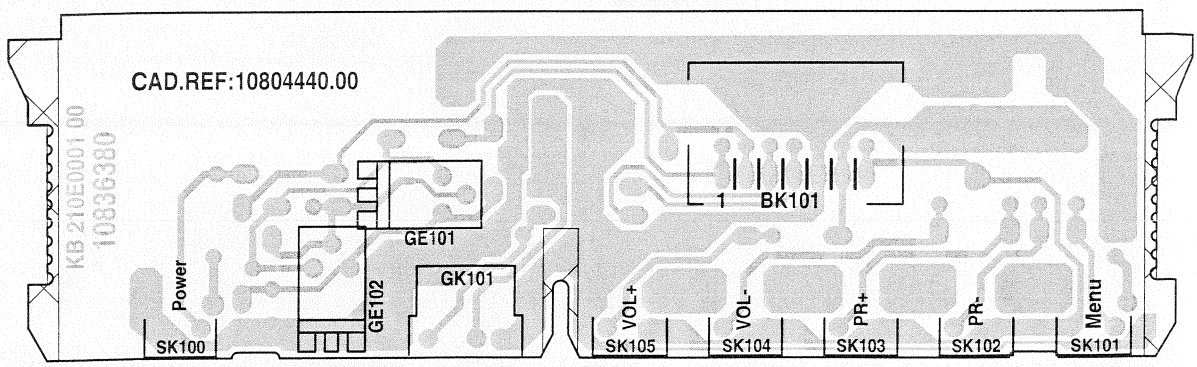




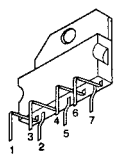
KB.222E0100.00 - KEYBOARD 5 Key



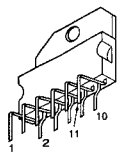




INTEGRATED CIRCUITS AND TRANSISTORS OUTLINE -
CIRCUITS INTEGRES ET TRANSISTORS
INTEGRIERTE SCHALTUNGEN UND TRANSISTOREN - CIRCUITI INTEGRATI TRANSISTOR -
CIRCUITOS INTEGRADOS Y TRANSISTORES



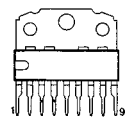
TDA 8177F
TDA7298



TDA7269

LM393
NJM2903D
TDA4950
TS482D
VIPER20DIP

MC4558CD
LM358D
TL431ACLP
M24C64WMN6



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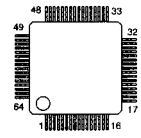

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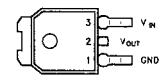

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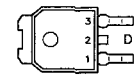

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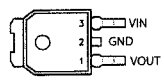

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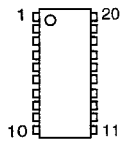

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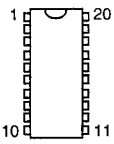

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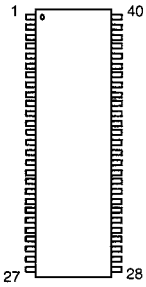

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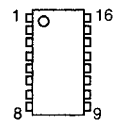

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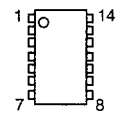

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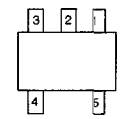

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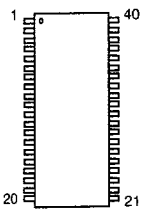

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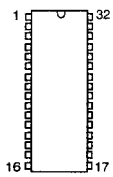

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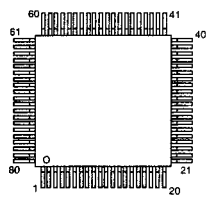

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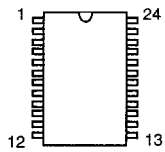

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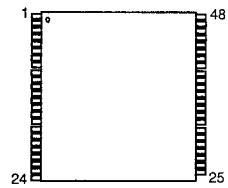

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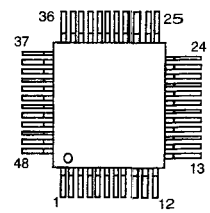

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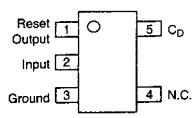

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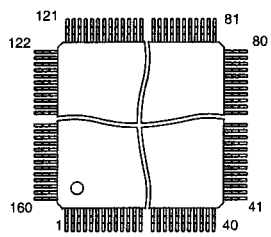

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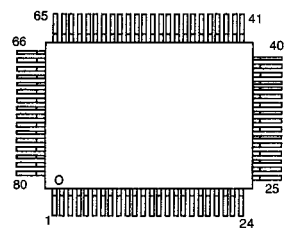

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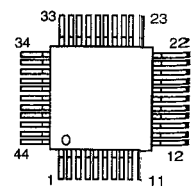

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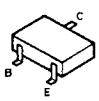

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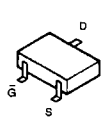

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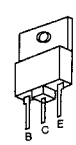

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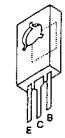

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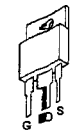

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LIST OF ABBREVIATIONS - LISTE DES ABREVIATIONS - ABKÜRZUNGEN
LISTA DELLE ABBREVIAZIONI - LISTA DE ABREVIACIONES

- **AQR_ON** DISABLE AQUISITION MODE REGUL. ENABLE PWM PULSE
- **AUDIO_MUTE** MUTES AUDIO AMPLFIERS
- **AV1_8** PIN_8 DETECTOR
- **AV_LINK** AV_LINK DATAS VCR/TV
- **AV_R_ OUT** AUDIO RIGHT-OUT
- **AV_L_ OUT** AUDIO LEFT-OUT
- **AV_R_ IN** AUDIO RIGHT-IN
- **AV_L_ IN** AUDIO LEFT-IN
- **AV_B** BLUE SIGNAL FROM AV
- **AV_G** GREEN SIGNAL FROM AV
- **AV_R** RED SIGNAL FROM AV
- **AV_C_ IN** CHROMA-IN
- **AV_FB** FAST BLANK SIGNAL FROM AV SCART
- **AV_Y_ IN** VIDEO-IN
- **BEAM_INFO** BEAM CURRENT INFORMATION
- **BLKCURR** CUT OFF CURRENT
- **B_TXT** BLUE SIGNAL OUTPUT (TEXT)
- **B_OUT** BLUE SIGNAL TO VIDEO AMPLIFIER
- **BREATHING** COMPENSATE BREATHING PICTURE SIGNAL
- **BSVM** BEAM SCAN VELOCITY MODULATION
- **CMP** COMPONENT INPUT SIGNALS
- **CNT1_20V** SAFETY SIGNAL TO INSURE A GOOD CONNECTION BETWEEN SIGNAL BOARD AND POWER BOARD (BV001- BL111)
- **CNT2_20V** SAFETY SIGNAL TO INSURE A GOOD CONNECTION BETWEEN SIGNAL BOARD AND POWER BOARD (BP500- BP005)
- **CRT** CATHODE RAY TUBE
- **CVBS** VIDEO
- **CVBS_TXT** TEXT VIDEO
- **DEFMOD** MODULATION VOLTAGE GENERATED ON DFB MODULE
- **DEGAUSS** DEGAUSS SIGNAL
- **DPC** DYNAMIC PHASE COMPENSATION SIGNAL
- **EFC** EARTH FIELD CORRECTION
- **EHT** EXTREMELY HIGH TENSION
- **EHT INFO** HORIZONTAL DEFLECTION PROTECTION
- **E.W_DRIVE** EAST - WEST DRIVE SIGNAL
- **EW_PROT** SAFETY SIGNAL FROM DIODE MODULATOR
- **FB DETEC** FAST BLANKING DETECT
- **FB_TXT** FAST BLANKING (TEXT)
- **FW ADJ.** FULL WHITE ADJUSTMENT
- **G_OUT** GREEN SIGNAL TO VIDEO AMPLIFIER
- **G_TXT** GREEN SIGNAL OUTPUT (TEXT)
- **H_DRIVE** DRIVE SIGNAL FOR HORIZONTAL DEFLECTION
- **HEATER** HEATER OUTPUT FROM THE DST TO CRT
- **IIC-CL-1** I2C CLOCK BUS 1
- **IIC-CL-2** I2C CLOCK BUS 2
- **INF_POW_FAIL** POWER FAIL INFORMATION
- **IR** INFRARED RECEIVER
- **LED** LED DISPLAY
- **M_RES#** MAIN RESET SIGNAL
- **NMI** NON MASKABLE INTERRUPT
- **PHI2_REF** PHI2 REFERENCE SIGNAL
- **PKS** PEAK SENSING
- **PO** POWER ON
- **PWM** PULSE WIDTH MODULATION
- **RESET** RESET TO MICROPROCESSOR
- **RF_CVBS** DEMODULATED TERRESTRIAL TUNER SIGNAL
- **ROTATION** OUTPUT OF EARTH FIELD CORRECTION STAGE
- **R_OUT** RED SIGNAL TO VIDEO AMPLIFIER
- **R_TXT** RED SIGNAL OUTPUT (TEXT)
- **SIF** SOUND IF OUTPUT
- **SSC_V_GUARD** SAFETY DATA GENERATED BY THE VERTICAL AMPLIFIER TDA8177F
- **TUBE DETECTION** INFORMATION FOR TUBE FORMAT
- **+USYS** SYSTEM VOLTAGE
- **+/- UA** SOUND VOLTAGE
- **+UVERT** POSITIVE SUPPLY VERTICAL VOLTAGE
- **-UVERT** NEGATIVE SUPPLY VERTICAL VOLTAGE
- **+UVFB** POSITIVE SUPPLY VOLTAGE FOR VERTICAL POWER STAGE
- **+UVIDEO** VIDEO VOLTAGE FOR THE CRT BOARD
- **U_OUT** U TO VIDEO PART
- **V_OUT** V TO VIDEO PART
- **Y_OUT** Y TO VIDEO PART
- **+UVFB** POSITIVE SUPPLY VOLTAGE FOR VERTICAL POWER STAGE
- **1V8_UC** SUPPLIES 1V81H / 1V82H POWER SUPPLY UP CONVERTER PART OF SIGNAL BOARD
- **3V3_UC** 3V3 POWER SUPLY UP CONVERTER PART OF SIGNAL BOARD
- **5 V_A / 5V_V** 5V POWER SUPPLY SIGNAL BOARD
- **5V_STBYL / 5V_RP** MICROPROCESSOR SUPPLY VOLTAGE
- **5V_STBY** 5V STANDBY
- **6 V** SUPPLIES THE 5V REGULATION AND 3V3 AND 1V8 REGULATORS ON THE SIGNAL BOARD.
- **10 V** SUPPLIES THE 8V_V REGULATORS ON SIGNAL BOARD
- **8 V** 8V SUPPLY SIGNAL BOARD
- **7V_STBY** 7V STANDBY
- **33V** SUPPLY VOLTAGE TUNER
- **20V** SUPPLY VOLTAGE HORIZONTAL DRIVER AND BSVM CRT

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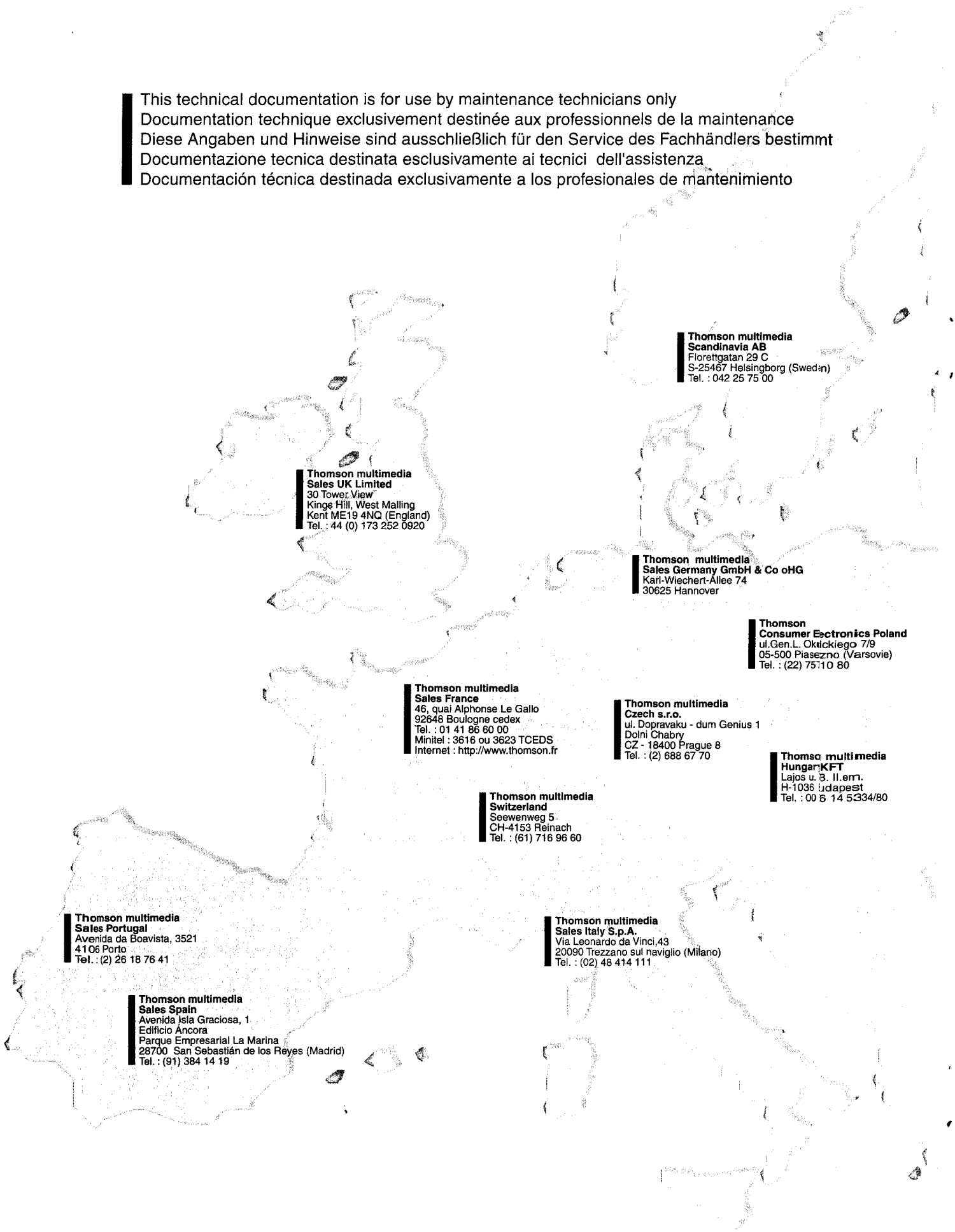

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